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REVIEW ON AUTOMATED LEARNING MACHINE USING AUTO HYPER PARAMETER TURNING

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Abstract:

The necessity for an efficient pipeline for the building of machine learning models has never been more vital, given the rise in the usage of machine learning in numerous areas. However, the work of developing and training models remains mainly traditional, with a reliance on domain specialists and time-consuming data manipulation operations, which stymies machine learning model development in both academia and industry. This demand promotes Auto ML, a new research era focused on fully automating the fitting of machine learning models. Auto ML (Automated Machine Learning) is an end-to-end procedure that tries to automate this model creation pipeline without the need for external help. First, we'll go over some Auto ML basics. Second, we go over the different components of the Auto ML pipeline and their techniques in detail. We also present a case study on the industrial application and impact of Auto ML, with a focus on its practical utility in a commercial setting.

Key Words: Auto ML, Smart ML, Image Net, Auto Hyper Parameter Turning.

Introduction:

Auto ML refers to the process of studying a traditional machine learning model development pipeline to segment it into modules and automate each of those to accelerate workflow. With the advent of deeper models, such as the ones used in image processing [2], Natural Language Processing [3], etc., there is an increasing need for tailored models that can be crafted for specific workloads. However, such specific models require immense resources such as high capacity memory, strong GPUs, domain experts to help during the development and long wait times during training. The task gets critical as there is not much work done for creating a formal framework for deciding model parameters without the need for trial and error. These nuances emphasized the need for Auto ML where automation can reduce turnaround times and also increase the accuracy of the derived models by removing human errors. In recent years, several tools and models have been proposed in the domain of Auto ML. Some of these focus on particular segments of Auto ML such as feature engineering or model selection, whereas some models attempt to optimize the complete pipeline. These tools have matured enough to be able to compare with human experts on Kaggle competitions and at times have beat them as well, showcasing their veracity. There are wide variety of applications based on Auto ML such as autonomic cloud computing [5], Intelligent Vehicular networks, Block Chain [6], Software Defined Networking [8], among others.

Data analysis is a powerful tool for learning insights on how to improve the decision making, business model and even products. This involves the construction and training of a machine learning model which faces several challenges due to lack of expert knowledge.

The primary contributions of this paper are threefold:

- We segment the Auto ML pipeline into parts and review the contributions in each of these segments.
- We explore the various state-of-the-art tools currently available for Auto ML and evaluate them.
- We also incorporate the advancements seen in machine learning which seems to be overshadowed by deep learning in recent years.

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This is to certify that Dr/Mr/Ms PARISA PREMCHAND GOUD, ASST. PROFESSOR, CSE - DEPT. of MEGHA INST. OF ENGG AND TECHNOLOGY FOR WOMEN has participated / presented a paper titled A DEEP KNOWLEDGE OVER GLOBAL CLIMATE ISSUES & APPLICATIONS USING DATA SCIENCE in the 3rd INTERNATIONAL CONFERENCE ON RECENT TRENDS IN ENGINEERING & TECHNOLOGY, ICRTET-21 at Samskruti College of Engineering and Technology, Ghatkesar Muncipality, Medchal- Malkajgiri Dist, Hyderabad – 501 301, Telangana, India on December 23rd and 24th, 2021.

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This is to certify that Dr/Mr/Ms B.SAI VENKATA KRISHNA, Asst. Prof, MECH Dept of MIETW has participated / presented a paper titled Change in Learning Methodology during COVID-19 Pandemic - Online Learning and its SWOC Analysis in the 3rd INTERNATIONAL CONFERENCE ON RECENT TRENDS IN ENGINEERING & TECHNOLOGY, ICRTET-21 at Samskruti College of Engineering and Technology, Ghatkesar Muncipality, Medchal- Malkajgiri Dist, Hyderabad – 501 301, Telangana, India on December 23rd and 24th, 2021.

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A Deep Knowledge over Global Climate Issues and Applications using Data Science

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Abstract: Global climate change and its consequences for human life have become one of our century's most pressing issues. This would set it apart from other industries, such as advertising or electronic commerce, where enormous data has been a huge success storey. This mismatch derives from the complex structure of climate data as well as the scientific questions that climate science raises. This article introduces a knowledge science audience to the challenges and prospects of mining big climate datasets, with a focus on the subtle differences between mining climate data and traditional enormous data methodologies. We prefer to focus on information, techniques, and application issues that must be self-addressed in order for giantinformationtoliveuptotheirpromiseinclimatescienceapplications.
additionalsignificantly,wetendtospotlightanalysisshowingthatentirelyrelyingonancientmassivein formationtechniquesresultsindubiousfindings,whichweinsteadproposeatheory-guidedinformaticsparadigmthatusestheorytoconstraineachinformationtechniquesadditionallybec ausetheresults-interpretationmethodtoextractcorrectinsightfromlargeclimateinformation.

Keywords: ANN approach random forest algorithm, heibrid datasets.

Customer Churn Analysis and Prediction Based on Data Mining Models in Banking Sector

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ABSTRACT: A new strategy for analyzing and predicting client turnover has been proposed. In the banking industry, the method employs a data mining model. This was motivated by the fact that approximately 1.5 million consumers churn each year, a figure that is steadily rising. The action of predicting whether or not a client will quit a company is known as churn customer prediction. A categorization strategy from data mining that builds a machine learning model is one way to forecast customer attrition. With a dataset of 57 variables, this study put five different categorization algorithms to the test. Experiments with comparisons between different classes were conducted out multiple times. With a 50:50 comparison, the Support Vector Machine (SVM) was used. At an Indonesian private bank, class sampling data is the most effective tool for predicting client attrition. The findings of this modeling can be used by businesses that will use it. strategic action to prevent customer churn.

KEYWORDS—customer churn, prediction, data mining, classification, machine learning

A Study and Implementation of Artificial Intelligence & Deep Learning Approaches for Diagnosis and Treatment of COVID – 19

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ABSTRACT

The COVID-19 has put the entire world in an unprecedented tough situation, bringing life to a terrifying standstill and claiming thousands of lives all across the planet. COVID-19 is a genuine threat to the public health system since it has spread to 213 countries and territories, with a growing number of infected patients and death tolls of 5,472,172 and 324,915 (as of May 23 2020). This study proposes an Artificial Intelligence-based solution to tackle the infection (AI). To achieve this goal, Deep Learning (DL) approaches such as Generative Adversarial Networks (GANs), Extreme Learning Machine (ELM), and Long/Short Term Memory have been demonstrated (LSTM). It outlines an integrated bioinformatics method in which various features of data from a variety of structured and unstructured data sources are combined to provide user-friendly platforms for physicians and researchers. The fundamental benefit of these AI-based platforms is that they speed up the process of learning, COVID-19 disease diagnosis and therapy. The most recent linked articles and medical reports were reviewed with the goal of selecting network inputs and targets that could aid in the development of a viable Artificial Neural Network-based tool for COVID-19 problems. Furthermore, each platform has some unique inputs, such as distinct types of data, such as clinical data and medical imaging, that can help improve the performance of the described methodologies in real-world applications.

Keywords: Artificial Intelligence, Big Data, Bioinformatics, Biomedical Informatics, COVID-19, DeepLearning, Diagnosis, Machine Learning.

Prediction of PostMortem using Artificial Intelligence (AI)

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Abstract: In forensic investigations, determining the postmortem interval (PMI) or time of death is crucial. Estimating the PMI with accuracy is a critical challenge for a forensic

investigator and accurate examiner. Biochemical technology advancements in recent years have begun to look for biomarkers in a variety of biological systems PMI is calculated using fluids such as blood and urine. Researches considering the usage of blood in PMI calculation, it appears that Blood from the femoral vein must be obtained for testing. A biochemical element Artificial Intelligence AI, which is displayed by robots that have been educated to perform certain tasks, is rapidly becoming a part of forensic investigations. Learn new things and solve issues. The current project proposes a concept for a device that may be used to forecast the weather PMI provides a profile of several metabolites in the body. Lactate dehydrogenase (LDH) and aspartate aminotransferase (AST) levels in the blood Triglycerides and cholesterols, as well as aminotransferase (AST). In addition to determining the pH of the blood. These biological indicators could be useful in forensic investigations Inquiries into deaths.

Keyword: Accuracy, Classifiers, Cardiovascular disease, Prediction.

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Biometric Security: Palm Vein Recognition with Local Binary Pattern and Scale Invariant Feature Transform

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Abstract: Palm vein technologies are one of the most secure new technologies on the horizon. It's the world's first contactless personal identification system. A technique for identifying people based on their vein patterns Human palms are used to confirm a person's identity. It's because it makes use of data, it is extremely secure. is a substance that is found within the body and is also Because of the vein pattern throughout the body, it's extremely accurate. Every palm is different and intricate individual. Furthermore, its contactless feature It has a sanitary advantage over other biometric systems. Technology for identification Recognize the veins on your palm is a vascular recognition approach that is employed in a unique way. For the purpose of identifying an individual Vein in the palm of the hand As veins, recognition provides great levels of security. Are difficult to forge since they are inside the skin. Every person's palm vein pattern is different; hence This can also be used to allow the user access. Identification cards can be used instead of passwords.etc. We employed a combination of pixel-wise Local Binary Pattern (LBP) and Scale Invariant Feature Transform (SIFT) techniques to create this article. To boost the performance, extract the palm vein features accuracy.

Key Words: Biometric, hand biometric, multispectral palm print, palm vein recognition, personal identification.

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Investigating Thermal Comfort for the Classroom Environment using IoT

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ABSTRACT: The study of one facet of human comfort is a must in this modern century, when good comfort is a necessity, especially in buildings and occupied space. The goal of this research is to learn more about the physiological side of things. In order to achieve thermal comfort, there are several elements that must be considered. Taking into account the kids' clothing insulation and metabolic rate, as well as the use of dry-bulb temperature, mean radiant temperature, humidity, and other parameters in order to achieve the level of comfort desired by pupils, as well as air circulation in a classroom setting ASHRAE is used to determine the level of comfort.55 to calculate the average thermal sensory response using the Predicted method Value of the Mean Vote (PMV). To read, an Android application was created. Recognizing clothing level (thickness of clothing) and capturing it as an input radiant to cater the inputs for physiological factors, while metabolic rate to cater the inputs for metabolic factors Static sensors measure temperature, humidity, and air movement. set up shop in the classroom This research examines both physiological and environmental aspects that influence pupils in class, as well as their comfort levels, which are a crucial influencing factor in learning attention. It was discovered by cross-referencing collected data from IoT equipped nodes. That a mix of physiological and environmental factors, as well as the interaction of both, they have a significant impact on achieving the most comfortable condition with PMV value a value of zero.

Keywords: Environmental factors Human physiology factors Internet of Things (IoT) Thermal comfort.

PERFORMANCE OF APF CONNECTED IN SHUNT FOR REDUCTION OF HARMONICS IN AIRCRAFT ELECTRICAL POWER SYSTEMS

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ABSTRACT: APF technology is used to increase the efficiency, dependability, and quality of aviation power systems. When compared to standard frequency (50/60Hz), the system is characterised by a variable frequency range of 350-900Hz, which results in harmonic content. The electrical power systems are upgraded to accommodate "More Electrical Aircraft" power capacity. The SAPF is a cascaded H-bridge inverter that compensates for reactive power and harmonics. Compensating currents are generated utilising an instantaneous P-Q theory, which helps to reduce THD and increase power quality. In this research, we look at the analysis and simulation of a CHB inverter (2-H cascaded bridge) with a PQ controller, as well as the performance of THD level harmonics in MATLAB.

KEYWORDS: SAPF (Shunt Active Power Filter), CHB (Cascaded H-bridge Inverter), THD (Total Harmonic Distortion), P-Q Theory.

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UNDERGROUND CABLE FAULT DETECTOR BASED ON IOT

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ABSTRACT: Due to subsurface environments, wear and tear, rats, and other factors, underground cables are susceptible to a wide range of problems. Diagnosing the source of a defect is complex, and to verify and correct issues, the entire cable must be removed from the ground. Using a PIC16F877A controller, the project effort aims to detect the location of faults in underground cable lines from the base station in kilometers. The wire must be examined for defects in order to discover a fault. The elementary concept of Ohms law is used in this prototype. The current would fluctuate based on the cable's fault length. Instead of overhead wires, electrical cables go underground in metropolitan areas. When a fault arises in an underground cable, pinpointing the exact site of the problem is difficult to do in order to repair that cable. The suggested approach locates the fault in its exact position. The prototype is made up of a set of resistors that represent cable length in kilometers, and a set of switches that create faults at every known distance to double-check the accuracy of the model. When a fault occurs, the voltage across series resistors changes, which is then fed to an ADC, which generates precise digital data and sends it to a programmed PIC IC, which displays the fault location in distance. On a 16X2 LCD connected to the microcontroller, the fault distance, phase, and time are displayed. Using the ESP8266 Wi-Fi module, IoT is used to show information over the Internet. The information about the occurrence of the fault is displayed in a webpage created with HTML coding.

Keywords: Underground Cable, Fault Location, Location Methods, Microcontroller, webpage.

A Study on Automated Learning Machine

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ABSTRACT

The necessity for an efficient pipeline for the building of machine learning models has never been more vital, given the rise in the usage of machine learning in numerous areas. However, the work of developing and training models remains mainly traditional, with a reliance on domain specialists and time-consuming data manipulation operations, which stymies machine learning model development in both academia and industry. This demand promotes AutoML, a new research era focused on fully automating the fitting of machine learning models. AutoML (Automated Machine Learning) is an end-to-end procedure that tries to automate this model creation pipeline without the need for external help. First, we'll go over some AutoML basics. Second, we go over the different components of the AutoML pipeline and their techniques in detail. We also present a case study on the industrial application and impact of AutoML, with a focus on its practical utility in a commercial setting.

Keywords : *AutoML, SmartML. ImageNet, Auto Hyperparameter turning.*

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DIODE CLAMPED MULTILEVEL INVERTER WITH SVPWM TECHNIQUE FOR IMPROVING POWER QUALITY

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ABSTRACT: The key characteristic of this project is that it uses a diode clamped multilevel converter with SVPWM method to deliver high-quality electricity from the smart grid to the smart house. It is expected that a multilayer transformer-less hybrid series active filter would increase the power standards of a single-phase residential house hold in this study. The proposed topography demonstrates customers' creative attitudes with electronic polluting loads, including the inclusion of renewable energy sources, which may indicate the extent of a reliable and environmentally friendly supply. The project leads to an improvement in power quality via a contemporary single phase system, as well as an impact on the coupling of a compensator laterally with energy storage capacity, allowing for long-term supply. To minimise distortions in current harmonics of numerous non-linear loads, a proportional resonant regulator is used in conjunction with a controller. The suggested topology's essential characteristics are a diode-clamped multilevel inverter and a high degree of expertise.

KEYWORDS: PWM Methods, SVPWM (Space Vector Pulse Width Modulation), Multi level Inverter, Harmonics & THD.

Change in Learning Methodology during COVID-19 Pandemic – Online Learning and its SWOC Analysis.

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ABSTRACT: Most the of the Educational Institutes (Schools, Colleges, Universities) in India follow the face to face teaching methodology and are very much tuned with it as it also followed by students .And some institutes started to have a blended mode of teaching to certain extent depending on their feasibility. The sudden outbreak of a deadly disease called Covid-19 caused by a Corona Virus (SARS-CoV-2) shook the entire world. This situation challenged the education system across the world and forced educators to shift to an online mode of teaching overnight. Many academic institutions that were earlier reluctant to change their traditional pedagogical approach had no option but to shift entirely to online teaching–learning. The article includes the importance of online learning and Strengths, Weaknesses, Opportunities, & Challenges (SWOC) analysis of e-learning modes in the time of crisis.

KEYWORDS: Covid -19, Online Learning, Online tools, Teaching methods,

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Structural Analysis of Gas Turbine Blades for Effective Use

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Abstract : The development of approaches for the fast structural analysis of gas turbine blades in aircraft engines is presented. Investigations on the behaviour of gas turbine blades concentrate on the analysis and evaluation of starting dynamics and fatigue strength. Besides, the influence of structural mistuning on the vibration characteristics of the single blade is analyzed and discussed. Design/methodology/approach – A basic computation cycle is generated from a flight profile to describe the operating history of the gas turbine blade properly. Within an approximation approach for high-frequency vibrations, maximum vibration amplitudes are computed by superposition of stationary frequency responses by means of weighting functions. In addition, a two-way coupling approach determines the influence of structural mistuning on the vibration of a single blade. Fatigue strength of gas turbine blades is analyzed with a semi-analytical approach. The progressive damage analysis is based on MINER's damage accumulation assuming a quasi-stable behaviour of the structure. Findings – The application to a gas turbine blade shows the computational capabilities of the approach presented. Structural characteristics are obtained in robust and stable computations using a detailed finite element model considering different load conditions. A high quality of results is realized while reducing the numerical costs significantly. Research limitations/implications – The method used for the analysis of the starting dynamics is based on the assumption of a quasi-static state. For structures with a sufficiently high stiffness, such as the gas turbine blades in the present work, this procedure is justified. The fatigue damage approach relies on the existence of a quasi-stable cyclic stress condition, which in general occurs for materials that are isotropic, as is the case for gas turbine blades. Practical implications – Due to the use of efficient analysis methods, a fast evaluation of the gas turbine blade within a stochastic analysis is feasible. Originality/value – The fast numerical methods and the use of the full finite element model enable performing a structural analysis of any blade structure with a great result quality.

Keywords: Gas turbine blade, Starting dynamics, Fatigue strength, Structural mistuning, Efficient approaches, Stochastic analysis

PERFORMANCE OF APF CONNECTED IN SHUNT FOR REDUCTION OF HARMONICS IN AIRCRAFT ELECTRICAL POWER SYSTEMS

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ABSTRACT: APF technology is used to increase the efficiency, dependability, and quality of aviation power systems. When compared to standard frequency (50/60Hz), the system is characterised by a variable frequency range of 350-900Hz, which results in harmonic content. The electrical power systems are upgraded to accommodate "More Electrical Aircraft" power capacity. The SAPF is a cascaded H-bridge inverter that compensates for reactive power and harmonics. Compensating currents are generated utilising an instantaneous P-Q theory, which helps to reduce THD and increase power quality. In this research, we look at the analysis and simulation of a CHB inverter (2-H cascaded bridge) with a PQ controller, as well as the performance of THD level harmonics in MATLAB.

KEYWORDS: SAPF (Shunt Active Power Filter), CHB (Cascaded H-bridge Inverter), THD (Total Harmonic Distortion), P-Q Theory.

Covid-19 is driving fear and greed in shopper behaviour and purchase pattern

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Abstract:

This research aims to study the recent changes in shopper behaviour and purchase pattern during the Covid-19 pandemic. Covid-19 pandemic has forced shoppers to stockpile, which has its own consequences. The article proposes the importance of "minimalism in consumption" to avoid greed in shopper behaviour. The study states that there will be a shift in the purchase pattern of the shoppers if lockdowns are imposed in the future or during any other crisis. However, at present, shoppers have developed a stockpiling mentality fearing the unavailability of essentials. A simple random sampling technique is used for data collection, and the collected data are analysed using SPSS version 26. Pandemic has stimulated a drastic change in shopper behaviour, which is a situational effect. Each crisis affects shopper behaviour in a different way. In this research, we have considered only fear, greed and anxiety in the light of Covid-19. On the other hand, the research intends to draw realistic conclusions based on shoppers' experiences during the lockdown. The study proposes solutions that will help marketers frame exclusive strategies for a future crisis. Analysing the change in shopper behaviour and the shift in purchase patterns will emphasize the importance of market research to know shopper expectations during a crisis situation in order to cater to their new demands. Shoppers who stockpile should realize the unavailability of goods to other shoppers who are in need. They also have to understand the importance of "minimalism in consumption" during a crisis. The data are collected during the most taxing crisis, the Covid-19 pandemic. Data are collected at the peak time of the Second wave of Covid-19 in India, during a major shift in shoppers' behaviour and purchase pattern. The article brings to the larger consciousness and also preaches a life lesson to all shoppers to execute their responsibilities in consumption without over-demands and expectations.

Keywords: Minimalism in consumption, Consumer behaviour, stockpiling , COVID-19.

MOBILE BANKING: AN OUTLOOK FOR NEW DIGITAL PAYMENT SYSTEM IN INDIA

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STRACT

bile banking is very convenient in today's age with many banks offering impressive apps. Recently, demands and requirements of banking consumers are altering quickly with the rise in the hnological avenues made available in the banking world. Banking customers have started manding flawless, multi-channel service experiences. And current generation is using mobile nking in a very effective way. Due to advancement of technical world now mobile banking stically changes the life of every individual. Government and banks are requesting the customers to mobile banking instead of going to banks as well as for purchasing. Customers feel that banking nsactions are safe through mobile banking. It can be observed that customers feel that it's not too ficult to use. As per the study Balance enquiry and account information are the most commonly used rvice in mobile banking. Majority of customer feel that service charges on mobile banking are asonable. As the study suggest that most of the bank needs to improve on mobile banking. Mobile nking is most commonly adopted by professionals. Most of them are satisfied with mobile banking plication. Among the different service provided by the bank, ATM, e-banking and mobile banking the most commonly used service compared to others. Even lots of people do not prefer mobile nking because of security reasons, and lack of technical know-how. But the advancement of mobile nking makes life easier mainly for financial matters, due to which the customer is now saving his me.

EYWORDS

dvancement, mobile banking, ATM

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TITLE: A Brief overview of maximum power point tracking algorithm for solar PV system

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Paper Title: **A Deep Neural Network based efficient Softwareâ€"Hardware Co-design Architecture for Sparsity Exploration**

Author/s: **S. John Pimo, Priyadarsini K, Dumaraju Sri Sai Satyanarayana, Dr. Venkatesan**

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A Study on Utility of Mobile Banking Technology in Hyderabad City, Telangana

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ABSTRACT:
Abstract Mobile banking is a term used for performing balance checks, account transactions, payments, credit applications, loans to farmer households, time demand deposits transfer, third- party depository, customized message, account management, personal setting and etc. Technology has a major impact in helping banks service their customer was with the introduction of the Internet banking. Internet Banking helped the customers to access their account at any time. Customers could check out their account details, get their bank statements, perform transactions like transferring money to other accounts and pay their bills sitting in the comfort of their homes and offices. The main benefit is that cell phone is more portable than even the smallest notebook. Mobile banking is convenient. Any time any where account access makes seat-of-the-pants one management possible. In this paper deals the utility of mobile banking and to study gives adoption and acceptance of mobile banking system, perception of mobile banking users, and analyze important factor is needed to adopt mobile banking system in Hyderabad City, Telangana.

Keywords: Mobile Banking, Internet Banking, Utility, Adoption, Perception and Acceptance

1. Introduction:

Although millions of dollars have been spent on building mobile banking systems, reports on mobile banking show that potential users may not be using the systems, despite their availability. Thus, research is needed to identify the factors determining users' acceptance of mobile banking. Mobile Banking is one of the significant functions of the bank. Mobile banking is a system that allows customers of a financial institution to conduct a number of financial transactions through a mobile device such as a mobile phone or tablet. Technically speaking most of these services can be deployed using more than one channel. Presently, Mobile Banking is being deployed using mobile applications developed on one of the following three channels. 1) Interactive Voice Response 2) Short Messaging Service 3) Wireless Access Protocol. The factors affecting the acceptance of an emerging IT artifact such as mobile banking have piqued interest among researchers and remain unknown due in part to consumers' trust and risk perceptions in the wireless platform

2. Research Methodology

2.1 Primary objective

The Primary objective of this study is to analyze the utility of mobile banking system in Hyderabad City, Telangana.

2.2objectives of a study

1. To study the adoption of mobile banking system by the bank customers in Hyderabad City, Telangana.
2. To know the perception level of mobile banking system.
3. To identify important factors this decides the acceptance of mobile banking system.
4. To give valuable suggestions to banking sector to promote mobile banking technology among the bank customer

2.3 Research design

Descriptive research design is used in this study. Descriptive research design is a scientific method which involves observing and describing the behaviour of a subject without influencing it in any way.

2.4 Source of Data

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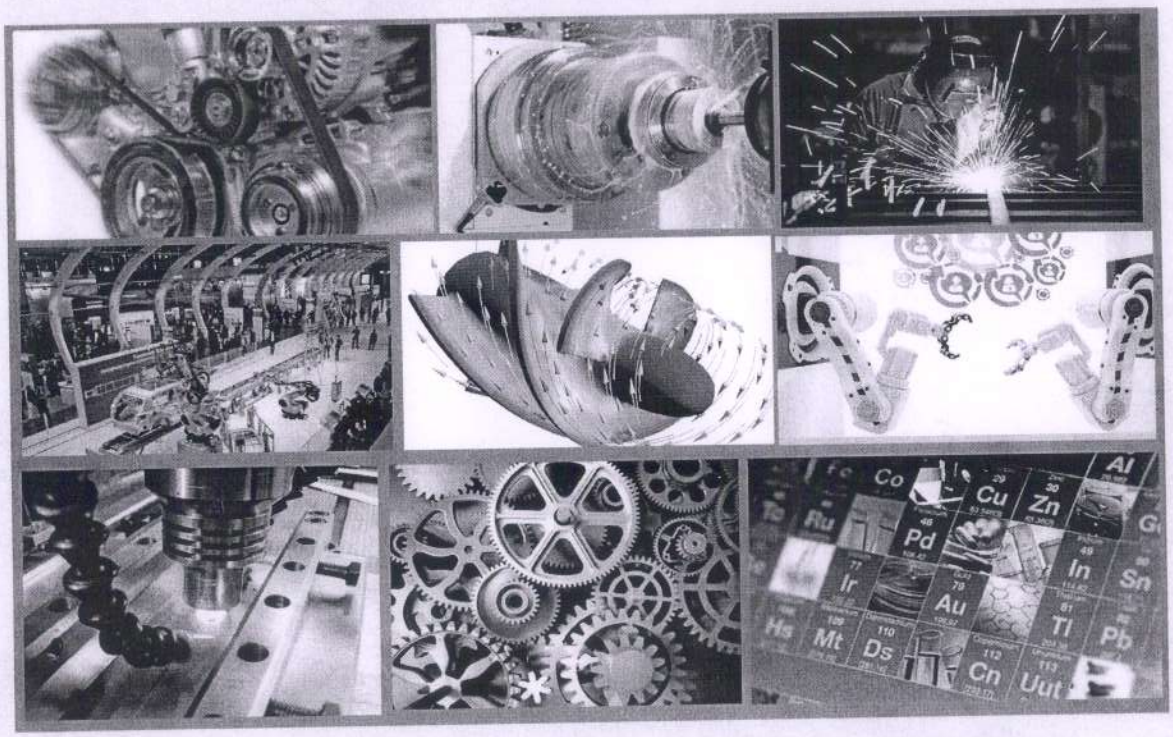

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HIGHER LEVEL EQUIPMENT AND POLISH OUTLOOK FOR GAS TURBINE APPLICATIONS

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ABSTRACT:

The need for very specific hardness / hardness materials can only be satisfied by design concepts using reinforced compounds. Carbon fiber made of high-strength and durable silicon in a high-temperature titanium matrix is one of the main candidates whose development will be described. Design concepts for high-pressure turbines that incorporate thermal protection layers for ceramics, i.e. heat-insulating coatings, will go beyond the natural limits provided by the melting point of Ni-based super-turbine blades. The sophisticated design of the aerodynamic engine will focus on reducing specific fuel consumption and increasing the weight-to-weight ratio. In the end, this requires an increase in pressure ratios, as well as higher operating temperatures, and certainly poses a major challenge to the structural design and materials used. High-capacity materials for high temperatures are required, as are very light structures. Reducing the weight of the pneumatic dynamic motor requires a new compact compressor design with a few phases. Gas turbine blades are designed for cooling methods, as well as for cooling films in external cooling and thermal cooling in internal cooling. The turbine blade is designed with four-hole and six-hole heat cooling. The film cools the air in the blade through several small holes in the chassis. The current material used for the blade is chrome-plated steel. Here, it is replaced by composite materials of ceramic matrix and silicon carbide. Advanced evaporation treatment using electron beam technology is the preferred choice for manufacturing these coatings in highly rotating parts. However, considerable efforts are still needed to improve these coatings, make them more reliable, and thus achieve a philosophy designed to fully exploit their potential.

Keywords: *gas turbine, rotor blade, steady state thermal analysis, fiber-reinforced composites, thermal barrier coating.*

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Experimental Study of Liquid Penetrant Test in Non Destructive Evaluation

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Abstract—

Non-Destructive Testing represents the testing techniques which are based on application of physical principles applied for the purpose of determining characteristics of materials /components for detecting and assessing the harmful defects without effecting the usefulness of such materials. One of such method of testing is considered in this paper called Dye Penetrant Testing/Liquid Penetrant Testing of NDT and experiment is conducted on the sample taken and studied. This paper describes methodology of conducting the dye penetrant testing/technique and their applications. The results are interpreted after the examination, advantages and limitations , and necessary precautions that are to be taken during the testing are discussed in detail in this paper.

Keywords—NDT, penetrants,cracks,interpretation.

I. INTRODUCTION

Non Destructive Testing Plays an important role in the quality control of the finished products, and also during various stages of manufacturing.It is used for condition monitoring of various items during operation to predict and assess the remaining life of the component while retaining its structural integrity, B.Raj[1].According to Lalitha[2], every product is made up of material and these materials should go through the check of quality in order to get a quality Product as an end output.

Till today NDT is widely used in assembling, fabrication and also to observe the in service of the final product and its reliability .Mainly NDT is used to ensure merit of components during the manufacturing and forging phases, while continuing with NDT inspection use mainly go with two important references that should be taken, whether to consider it to continue in service for future and also should it be safe to use.

It is mostly used to find dimension and locate the subsurface and surface glitches and irregularities.

- In NDT the most advantageous part is that we can utilize the components without damaging .
- NDT is purposely used to lower the cost and eliminate setback during the manufacturing process.

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AN EFFECT OF COVID-19 IN INDIA DURING THE INITIAL LOCKDOWN PERIOD - A STATISTICAL STUDY

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Abstract- ***in the modern world health is an important primary factor to the human being. The corona virus disease (COVID-19) epidemic is a public health emergency of global anxiety and creates a challenge to psychological resilience. Many people were infected with corona virus, especially aged people with diabetes, cancer and respiratory disease. The objective of this study is focusing the impact of the general public in India to enhance their understanding of the psychological effect, and depression during the initial lockdown period of the covid-19 epidemic. For this significant study of the impact of corona virus (COVID-19) the descriptive statistics, regression, analysis of variance (ANOVA) and chi-square test are applied based on the SPSS software.***

Keywords: Epidemic, Corona virus, Psychological effect, SPSS software.

1. INTRODUCTION

The disease of corona virus in 2019 epidemic in China is a world-wide health warning[1] and is by far-off the biggest outbreak of unusual pneumonia due to the fact that the Severe Acute Respiratory Syndrome (SARS) epidemic in 2003. Within weeks of the initial outbreak the number of total cases and deaths exceeded those of SARS [2]. The epidemic was first exposed in past due December 2019 when clusters of pneumonia cases of unidentified etiology had been observed to be related with epidemiologically connected exposure to a seafood market and without guides coverage within the town of Wuhan of Hubei Province [3]. Since, the number of cases has persisted to escalate exponentially within and beyond Wuhan, spreading to all 34 regions of China by 30th January 2020. On the same day, the World Health Organization (WHO) confirmed the COVID-19 epidemic community healthiness emerged situation of worldwide concern [4]. Markov model for the prediction of corona virus COVID-19 in India has been studied by R.Arumugam et. al [5]. Further to SARS, is a beta-corona virus that can be spread to human via in-between hosts which includes bats [6], though the real direction of transmission is still debatable; Human-to-human spread has been exposed through virus- weighted down respiratory drops, as a growing quantity of patients reportedly did no longer have animal market coverage, and cases have also happened in healthcare peoples [7]. Transmissibility of COVID-19 as designated by its reproductive figure has been forecast at 4.08 [8], signifying that on average, each case of COVID-19 will create up to four new cases. The coverage rate after 17th January 2020 has been taken into consideration to have extended 21-fold in comparison to the circumstances in the first half of January 2020 [9]. The mean incubation time is calculated to be 5.2 days, with substantial variant amongst patients [10] and it may be capable of asymptomatic spread [11, 12]. Indications of disease includes fever, chills, cough, coryza, sore throat, respiration difficulty, myalgia, nausea, vomiting and diarrhea. Aged guys with medical co-morbidities are more likely to get immured, with poorer outcomes [13]. Previously, Dr.R.Arumugam et.al.. has been studied the impact of dengue fever in Thanjavur district Using SPSS by [14]. In this paper the impact of corona virus (COVID-19) during the initial lockdown period in India has been studied using statistical tools. Dr. Arumugam. R et. al., [15] focusing the mortality table techniques for the manpower system. A statistical study has been made by Dr. Arumugam. R et., al. [16] for the air pollution during pre-pandemic COVID- 19 and in the lockdown period at Chennai city.

2. DATA COLLECTION

The corona virus secondary data was collected from the https://www.mygov.in/covid-19 website as on March 22nd 2020 for the study on the impact of corona

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Thermal and Structural Analysis of Gas Turbine Blade

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Abstract

A wind turbine blade is the private element that makes up the generator area of a gas wind turbine. The blades are in charge of drawing out power from the heat, high stress gas generated by the combustor. The generator blades are commonly the restricting element of gas generators. To endure in this challenging atmosphere, generator blades frequently utilize unique products like incredibly alloys and also several techniques of air conditioning, such as inner air networks, border layer air conditioning, as well as thermal obstacle finishes. In this job, a wind turbine blade is created as well as designed in 3D modeling software application Pro/Engineer. The style is customized by transforming the base of the blade to enhance the cooling effectiveness. Because the style of turbo equipment is complicated, and also effectiveness is straight associated with product efficiency, product option is of prime value. In this task, 2 products are taken into consideration for wind turbine blade titanium alloy and also nickel alloy. Optimization is done by differing the products Titanium alloy and also Super Alloy by carrying out combined area evaluation (thermal and also architectural) on the generator blade for both the styles.

Index Terms - Gas turbine, 3D model, CREO, ANYS, wind turbine, titanium alloy, Generator blade.

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Alternative to HCFC/CFC Refigerants – R 134a, its Production and Properties

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Abstract--**This paper will make an attempt to give necessary information regarding to alternative refrigerants being used in operating refrigerating facilities in the area of moderately low temperatures. There have been considered in detail alternative one component refrigerants and service blends of HCFC,CFC groups for refrigerating systems and air conditioning systems , refrigerating transport , their compatibility with refrigerating oils, metals , plastics and elastomers. The operating pressures of these refrigerants are made to be convenient and appropriate for the design, construction and economic operation also. Now a day's most alternative refrigerant R-134a is widely applied as a substitute to some of the refrigerants. The manufacturing process of this refrigerant is explained in detail in this paper and their property, applications, is discussed.**

Key Words: R 134a refrigerant, production, properties, applications.

I. INTRODUCTION:

Refrigeration is the process of removing heat from an enclosed space, or from a substance, and moving it to a place where it is unobjectionable. The primary purpose of refrigeration is lowering the temperature of the enclosed space or substance and then maintaining that lower temperature.

Methods of refrigeration can be classified as non-cyclic and cyclic, as said by Ari[1],

Non-cyclic refrigeration: In these methods, refrigeration can be accomplished by melting ice or by subliming ice dry. These methods are used for small-scale refrigeration such as in laboratories and workshops, or in portable coolers.

Cyclic refrigeration: This consists of a refrigeration cycle, where heat is removed from a low-temperature space or source and rejected to a high-temperature sink with the help of external work, and its inverse, the thermodynamic power cycle. In the power cycle, heat is supplied from a high-temperature source to the engine, part of the heat being used to produce work and the rest being rejected to a low-temperature sinks. This satisfies the second law of thermodynamics. The most common types of refrigeration systems use the reverse-Rankine vapor compression refrigeration cycle although absorption heat pumps are used in a minority of applications.

A refrigerant is a compound used in a heat cycle that undergoes a phase change from a gas to a liquid and back which effects the cooling and heating on the coils side. Since it was discovered in the 1980s that the most widely used refrigerants were major causes of ozone depletion, a worldwide phase out of ozone-depleting refrigerants has been undertaken. These are being replaced with "ozone-friendly" refrigerants, according to Araki [2].

Refrigerants by class:

Refrigerants may be divided into three classes according to their manner of absorption or extraction of heat from the substances to be refrigerated:

Class 1: This class includes refrigerants that cool by phase change (typically boiling), using the refrigerant's latent heat.

Class 2: These refrigerants cool by temperature change or 'sensible heat', the quantity of heat being the specific heat capacity vs the temperature change. They are air, calcium chloride brine, sodium chloride brine, alcohol, and similar nonfreezing solutions. The purpose of Class 2 refrigerants is to receive a reduction of temperature from Class 1 refrigerants and convey this lower temperature to the area to be air-conditioned.

Class 3: This group consists of solutions that contain absorbed vapors of liquefiable agents or refrigerating media. These solutions function by nature of their ability to carry liquefiable vapors, which produce a cooling effect by the absorption of their heat of solution.

Azeotropes:A mixture of two or more substances whose liquid and gaseous forms have the same composition (at a certain pressure); the substances cannot be separated by

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Green Manufacturing Methods - A Review

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***Abstract*--This focus on the ecological design of the environment for the eco-friendly manufacturing system, the conservation of energy and product development while reducing paper waste also highlights the use of green manufacturing to form a sustainable product, reusing the product and a shorter life cycle. Previous research has suggested relationships between these two areas, suggesting that "it leans green." The spontaneous slogan of waste reduction and "doing more with less" is immediately manifested as an achievement of environmental benefits and has been the basis of previous research. All the research that relates fat-free processes to sustainability problems has focused exclusively on the environmental impact. The main objective of the green industry is to save the environment and reduce the cost of the product.**

Keywords: - Lean Manufacturing , Green Manufacturing , Sustainability , Environment.

I. INTRODUCTION

The environment is critical and climate change at any point leads to land imbalance. ISO has proposed a new quality management system for products and even an environmental management system. The main era is to reduce environmental damage due to industries. There is a need for a new manufacturing process, ie green manufacturing, which is suitable for sustainable development strategy. The cost of energy and resources is constantly increasing due to increasing demand and limited supply. In addition, price trends can not be predicted, so companies aim to successfully produce a large range of energy prices and resources. One strategy to adjust to price fluctuations is to pass customer margins. However, price increases may require improvements in the product. Sustainability in manufacturing has received special attention from many researchers, and many research has been published in this new field of science. Sustainability, however, is a widely accepted idea with little guidance on its practical implementation and its impact on the company's performance. Manufacturing is part of global consumption of resources and waste generation. However, they have the potential to become the driving force for creating a sustainable society. They can design and implement sustainable integrated practices and develop products and services that contribute to improved environmental performance. The long-term sustainability of the company depends to a large extent on how to maintain its competitiveness and at the same time maintain a sustainable environment. In recent years, many organizations have implemented environmental sustainability programs in their organizations; however, it is difficult to find details on their implementation.

1.1 Green Manufacturing: Green manufacturing (GM) is defined in most generic manner as "manufacturing practices that do not harm the environment during any of its journey phases" It includes the ecological design of the products, the use of ecological raw materials, the ecological packaging, the distribution and the reuse after the useful life of the product. Delay the depletion of natural resources and reduce waste. Emphasis is placed on the reduction of parts, the rationalization of materials and the reuse of components. It covers a series of manufacturing problems, including 6R, ie, reduction, reuse, recycling, recovery, redesign and recycling, waste management, environmental protection, regulatory compliance, pollution control and other related requirements.

Green manufacturing practices: Green related developments evolved hand in hand with manufacturing management practices. Previous studies have reported that environmental problems will be crucial to manufacturing companies in Asia over decades (Diabat and Govindan, 2011; Chu et al., 2005). Teles et al. (2015) limit the reduction of natural resource consumption and waste treatment, because environmental practices are very popular among Brazilian companies with the best results in GM practice. Similarly, in China, environmental problems became more pronounced (Chu et al., 2005. Similarly, the communication capabilities of GSCM and empirically examined the relationship between green integration, reducing the costs and competitiveness of green enterprises from the perspective of suppliers in the Korean context). Rahman and Sharivastava (2013) revealed that most Indian companies revealed that most Indian companies do not have enough knowledge about GM, there are many gaps and confusion regarding GM implementation, the study also confirmed that there will

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CFD and Heat Transfer Analysis of Air Craft Gas Turbine Blade

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Abstract--**Gas turbines are widely used for propulsion aircraft, power generation on land and industrial applications. The thermal efficiency of the gas turbine has been improved by increasing the input temperature of the turbine rotor. The input temperature of the advanced gas turbine is higher than that of the blade. A sophisticated cooling system should be developed to ensure safe and continuous operation of high performance gas turbines. The gas turbines are cooled externally and internally. Several methods of cooling blades and blades were suggested. Techniques that include cooling of blades and codes using cooling methods are external cooling and internal cooling. In this paper the turbine code was designed in the CREO program. Gas turbine blades are designed for cooling methods as well as film cooling in external cooling and thermal cooling in internal cooling. The turbine blade is designed with thermal cooling for four holes and 6 holes. The film cools the air into the blade through several small holes in the chassis. CFD analysis to determine heat transfer rates, heat transfer coefficients for the blade. Thermal analysis to determine temperature distribution, heat flow and static analysis to determine the deformation, stress and stress of each of the codes in the ANSYS program. The current materials used for the blade are chromed steel. In this work, they are replaced by composite materials from ceramic matrix and silicon carbide.**

Keywords: Ansys14.5, gas turbine, rotor blade, steady state thermal analysis

I. INTRODUCTION

1.1 INTRODUCTION TO TURBINE: The word "turbine" was formulated in 1822 by the French mining engineer Claude Borden of the Latin turbines, or vortex, in the memoirs of "Des turinas hidráulicas rotatoires à grande vitas" Paris Benoit Fornoron, former student of Claude Borden, built the first practical water turbine. The turbine is a rotary engine that draws energy from the fluid flow and makes it a useful job. The simplest turbines contain a moving part, a rotating assembly, a shaft or a drum with joined vanes. The fluid moves on the blades, or the blades interact with the flow, moving and moving the rotational energy towards the rotor. Gas, steam and water turbines often contain a wrap around the blades that contain and control the working fluid.

1.2 STEAM TURBINE: Steam turbines are a device that extracts heat energy from compressed steam and uses it to conduct mechanical work on a rotary output shaft. Its modern appearance was invented by Sir Charles Parsons in 1884. Because the turbine generates rotary motion, it is particularly suitable for use in the operation of a generator: nearly 90% of all US electricity generation is through steam turbines. The steam turbine is a form of thermal engine that derives much of its improvement in thermodynamic efficiency through the use of multiple stages in vapor expansion, leading to a closer approximation to the ideal reverse process.

Fig: 1.1 Steam Turbine

The compressor is a mechanical device that increases the pressure of the gas by reducing its size. The compressors are similar to the pumps: each one increases the pressure on the liquid, and both can transfer the fluid through a tube. As the gases are compressible, the compressor also reduces the volume of gas. The fluids are relatively compressible. While some can be compressed, the main procedure of the pump is pressure and fluid transfer. The combustion chamber is part of the engine in which the fuel is burned. Power is added to the gas stream in combustion, where the fuel mixes with the air and ignites. In a high combustion environment, the combustion of the fuel increases the temperature. The combustion products are forced into the turbine section.

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THE NEW PARADIGM IN RETAILING - "E TAILING"

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Abstract

Innovations in Internet technologies and globalization of markets provide a distinct policy for the growth of retail brands in India through "E-Tailing". E-Tailing organ of E- Commerce refers to the selling of goods on the internet (Electronic Retailing). With the exponentially growing internet user base and plastic cards penetration in the country, this form of shopping has swiftly established a new lease of life which facilitates immense scope to accelerate in future. E-tailing impede a level playing field for all, where consumers no longer hop from place to place for shopping, but virtually using internet technologies for procuring products from any part of the Globe. The E-Commerce trade plays an imperative role in Expansion.

Consumers whoface a dearth of time, desire a diverse range of products to choose from, e-tailing proves to be an ideal option and helps to build loyal customers and is intended at selling in areas where they don't have a physical presence. Online retailing portals such as Flipkart, Snapdeal, Amazon recorded 50-60% growth. Last 2-3 years trends in E-Tailing exhibit intensification mostly in big cities of metros. In this context the present study aims to examine consumer perceptions towards e-tailing and also explores on future prospects of the online market. This paper draws its empirical material through pilot survey method by designing structured questionnaire and findings reveal that the majority of consumers frequently use E-Tailing. E-Tailing is contributing in development of the country by optimizing the unemployment situation; creating opportunitiesacross the value chain for entrepreneurs. Broadband bottleneck still remains a challenge to replicate the success of e- tailing. Online retail segment in India is rising to 35% annually from Rs. 20 Billion in 2011 to Rs. 70 Billion by 2015. For e-tailing it is believed that the future will be bright.

Key Words - E-Tailing, Consumer perception challenges, opportunities.

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