



HARISH K G

Electronics and Communication Engineering

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Year	Degree/Certificate	Institute/School	CGPA/Percentage
2019-Ist SEM	B.E-ECE	Sri Ramakrishna Engineering College	8.54 (GPA)
2020-IIInd SEM	B.E-ECE	Sri Ramakrishna Engineering College	8.96 (GPA)
2020-IIIrd SEM	B.E-ECE	Sri Ramakrishna Engineering College	8.04 (GPA)
2021-IVth SEM	B.E-ECE	Sri Ramakrishna Engineering College	8.32 (GPA)
2021-Vth SEM	B.E-ECE	Sri Ramakrishna Engineering College	8.42 (GPA)
2022-VIth SEM	B.E-ECE	Sri Ramakrishna Engineering College	8.19(GPA)
2022-VII SEM	B.E-ECE	Sri Ramakrishna Engineering College	8.41(GPA)
2023-VII SEM	B.E-ECE	Sri Ramakrishna Engineering College	8.45(GPA)
2019-2023	B.E-ECE	Sri Ramakrishna Engineering College	8.45(CGPA)
2017	SSLC	Navajothi Matriculation Higher Secondary School	96.40%
2019	HSC	Bapuji Memorial Higher Secondary School	80.00%

Areas of Interest

- ❖ Java Programming
 - ❖ Networking
 - ❖ Application and web development
 - ❖ Artificial Intelligence & Machine Learning
 - ❖ Embedded Systems.
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Weather prediction using AI/ML Techniques

June 2021

(Project Mentor : Mrs.Jayanthi.s,Professor,Dept of ECE)

Weather forecasting is the attempt by meteorologists to predict the weather conditions at some future time and the weather conditions that may be expected. The climatic condition parameters are based on the temperature, wind, humidity, rainfall and size of data set. This project proposes a Deep Learning (DL) based model to predict the weather temperature, wind, humidity, rainfall and pressure. These helps synoptic meteorologists, administrators and common man for better interpretation and decision support during extreme weather events. Long short-term memory (LSTM) is an artificial recurrent neural network (RNN) architecture used in the field of deep learning. The data is stored in the form of CSV, JSON, XML files which is used for further analysis. Unlike standard feedforward neural networks, LSTM has feedback connections. The correlation analysis of the parameters helps in predicting the future values for next 30 days. The LSTM model gives an accuracy of 96% and mean square error of 1.10

Languages & Tools Used: Python,Jupyter Notebook

ATM CARD FRAUD DETECTION USING ML

June 2022

(Project Mentor : Mrs.Jayanthi.s,Professor,Dept of ECE)

It aims in minimizing the false alerts using machine learning techniques where a set of interval valued parameters are optimized. To develop an ATM card fraud detection system using genetic algorithm. During the ATM card transaction, the fraud is detected, and the number of false alert is being minimized by using genetic algorithm like Decision Tree ,SVM and K-Nearest Neighbour. Instead of maximizing the numbers of correctly classified transactions we defined an objective function where the misclassification costs are variable and thus, correct classification of some transactions are more important than correctly classifying the others. This information regarding analysis is done for the proposed system.

Languages & Tools Used: Python,Jupyter Notebook

(Project Mentor : Mr.Sathish Kumar.N,Professor,Dept of ECE)

When one among the three-phases of a system gets lost, it may cause a phase loss. This type of loss is referred as a 'single phasing' and it is caused by a fluctuation of voltage and current in the phase. The faults on electrical power system transmission lines are supposed to be first detected and classified correctly and should be cleared in the least possible time. This projects aims to provide a power failure prediction model for three phase using AI/ML. Project includes algorithms namely ANN, LSTM, SVM, Random Forest, KNN, Decision Tree are implemented and tested using google colab. Random Forest in Machine learning shows the high accuracy of 99.543% respectively. Performance metrics such as Accuracy, Loss, Precision, Recall, F1 Score, Mean Square Error, Mean Absolute Error, Specifcity and Sensitivity of the model are tested. It is inferred that Random Forest is superior in fault detection compared to the other implemented models.

Languages & Tools Used: Python,Jupyter Notebook,Google Colab

Technical Skills

- ❖ **Programming Languages:** C,Java ,Python ,Java Script
- ❖ **Markup Languages:**HTML,CSS,XML
- ❖ **Database:** MySQL,Mongo DB
- ❖ **Softwares Known:** Android Studio,Xilinx,Matlab,Jupyter Notebook,Basics of React,Bootstrap,Django,jquery

Certification and Key Courses Taken

- ❖ Honours Diploma in Computer Application(HDCA) Offered through CSC
- ❖ Advanced JAVA Programming offered through CSC
- ❖ Undergone “Machine Learning”, Certified Course by Stanford University offered through Coursera.
- ❖ Undergone “Introduction to AI &ML”, Certified Course by DeepLearning.AI offered through Coursera.
- ❖ Undergone “Introduction to IOT&ES”,Certified course by UCI offered through Coursera..
- ❖ Undergone “MATLAB” Specialization consisting of 4 courses, Certified Course by Vanderbilt University offered through Coursera.
 - Introduction to Programming with MATLAB
 - Introduction to Data, Signal, and Image Analysis with MATLAB
 - Mastering Programming with MATLAB
 - MATLAB Programming for Engineers and Scientists
- Undergone “Google IT Support” Specialization consisting of 5 courses, Certificate Course by Google offered through Coursera.
- ❖ Technical Support Fundamentals.

- ❖ The Bits and Bytes of Computer Networking
- ❖ Operating system and you Becoming a Power User
- ❖ System Administration and IT Infrastructure Services
- ❖ IT Security: Defense against the digital dark arts
- Undergone “Google UX Design” Specialization consisting of 7 courses, Certified Course by Google offered through Coursera.
- ❖ Foundations of User Experience (UX) Design
- ❖ Start the UX Design Process: Empathize, Define, and Ideate
- ❖ Build Wireframes and Low-Fidelity Prototypes
- ❖ Conduct UX Research and Test Early Concepts
- ❖ Create High-Fidelity Designs and Prototypes in Figma
- ❖ Responsive Web Design in Adobe XD
- ❖ Design a User Experience for Social Good & Prepare for jobs

Achievements

- Participated in VISAI Contest Conducted by Vel Tech.
- Participated in Amazon Hackthon Challenge by MyGov.
- Cleared Business English Certificate Examination (Preliminary) conducted by Cambridge University.

Positions of Responsibility

- Active member of the Google Developer Students Clubs(GDSC).
- Active member of Microsoft Learn Student Ambassadors(MLSA).

Personal Details

Date of Birth : 07-12-2001

Languages Known : English, Tamil, Malayalam

Address : 6/35 A2 Indira Bhavan, Cheremangalam , Manavalakurichi, Kanniya Kumari 629252

I solemnly declare that all the above information is correct to the best of my knowledge and belief.

Place : Coimbatore

Harish K G

