

HARISH K G

Python Full Stack Developer

Electronics and Communication Engineering

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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

- ❖ Python Programming
 - ❖ Java Programming
 - ❖ Networking
 - ❖ Application and web development
 - ❖ Artificial Intelligence & Machine Learning
 - ❖ Embedded Systems.
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Projects

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. This project proposes a Deep Learning (DL) based model to predict the weather. These help 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

PREDICTION OF THREE PHASE POWER FAILURE USING AI/ML

June 2023

(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, Specificity 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

EXPENSE TRACKER PLATFORM

August 2023

(Project Mentor: Mrs.Anagha, Python Trainer One Team Solutions)

Expense Tracker is application that can help you track and list expenses, and also analyze charts and statistics about them.

Used Software's: Python, Django, MySql, HTML, CSS

BLOGGING PLATFORM

October 2023

(Project Mentor : Mrs.Anagha,Python Trainer One Team Solutions)

Expense Tracker is application that can help you track and list expenses, and also analyze charts and statistics about them.

Used software's:Python,Django,MySql,HTML,CSS

ECOMMERCE WEBSITE

December 2023

(Project Mentor : Mrs.Anagha,Python Trainer One Team Solutions)

A website which helps the user to to manage catalogued products, register purchases and manage a users relationship with an online retailer.

Used software's:Python,Django,MySql,HTML,CSS

INTERSHIP

PYTHON FULL STACK DEVELOPER

July 2023 – December 2023

(One Team Solutions Edtech Pvt Ltd -Thiruvananthapuram, Kerala)

- Developed Projects' on web applications using Django framework.
- Worked on Front end technologies such as HTML,CSS,Javascript,React js.
- Had a hands-on experience on JQuery, Bootstrap Frameworks.
- Used Git for version control and have worked with GitFlow.
- Had a hands-on experience on MySQL Database and Postman API

JAVA FULL STACK DEVELOPER

September2022 – February 2023

(Rfpio India Private Limited-Coimbatore, Tamil Nadu)

- Had a hands-on training on java core concepts.
- Had a hands-on training on Java Spring Framework
- Had a hands-on experience on Mongo DB Database.

Technical Skills

- ❖ **Programming Languages:** C, Python, Java,
- ❖ **Front End Technologies:** HTML, CSS, Java Script, React JS, JQuery
- ❖ **Database:** MySQL, Mongo DB
- ❖ **Software's:** Android Studio, Xilinx, MATLAB, Jupyter Notebook
- ❖ **Frameworks:** Bootstrap, Django

Certification and Key Courses Taken

- ❖ Honours Diploma in Computer Application(HDCA) Offered through CSC
- ❖ Advanced JAVA Programming Course offered through a vendor's Program.
- ❖ Undergone "Machine Learning", Certified Course by Stanford University offered throughCoursera.
- ❖ Undergone "MATLAB" Specialization consisting of 4 courses, Certified Course byVanderbilt University offered through Coursera.
- ❖ Undergone "Google IT Support" Specialization consisting of 5 courses, CertificateCourse by Google offered through Coursera.
- ❖ Undergone "Google UX Design" Specialization consisting of 7 courses, CertifiedCourse by Google offered through Coursera.

Achievements

- Completed IBM Project on Natural Disasters Intensity Analysis and Classification using Artificial Intelligence
- 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 : Tamil, Malayalam, English

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