**Name: Abhiram M V**

**Email id: abhiram2000@gmail.com**

**Mobile: 7975936484**

## Career Objective:

**Aspiring engineer who is looking for opportunities in the industry where I can gain experience and best utilize my skills and strengths to help accomplish the company's goals and objectives. Passionate about taking up new challenges to help improve my knowledge. Interested in the field of Data science and Internet of Things.**

## Educational Qualification:

| Sl No | Course | Institution | University / Board | Year of passing | Marks obtained | Class |
|---|---|---|---|---|---|---|
| 1 | B TECH | DAYANANDA SAGAR UNIVERSITY | PRIVATE | 2022 | 7.12(1st Sem)<br>8.29(2nd Sem)<br>7.73(3rd Sem)<br>8.36(4th Sem)<br>7.84(5th Sem)<br>7.68(6th Sem)<br>CGPA – 7.83 | FIRST CLASS WITH DISTINCTION |
| 2 | XII | AECS MAGNOLIA MAARUTI PU COLLEGE | Karnataka PU Board | 2018 | 66.5 | FIRST |
| 3 | X | THE BRIGADE SCHOOL | CBSE | 2016 | 81.7 | FIRST |

## Skill Sets:

**PROGRAMMING LANGUAGES:** C, C++, Python, MATLAB, JAVA, JavaScript, HTML, CSS

**Technical Skills:** SQL, Machine Learning (Sklearn, OpenCV), Deep Learning (TensorFlow), OOPS, RDBMS

**Tools:** Visual Studio. Jupyter Notebook, Spyder, PGAdmin

## Internship

**Data Science Intern -The Sparks Foundation** (February 2021 - March 2021)

- ➔ Performed exploratory data analysis to give data insights and predictions using supervised and unsupervised machine learning algorithms on the data given

## Project details:

### Minor

**Digital Thermometer: Tools:** Arduino IDE, Proteus Design Suite

- ➔ Simulated a digital thermometer using Proteus software with 8051 Microcontroller and Arduino Uno
- ➔ Used ADC0804, LM35 temperature sensor and 16x2 LCD display

**Student Information Management System: Tools: Dev-C++**

- ➔ Created a simple menu driven program to store student information like roll number, name, phone number, father's name, address, DOB etc.
- ➔ Used structures to store group of store the different data types. The system consists of record entry section, record searching section, display section and section to quit from the program
- ➔ Used switch statement to help the user select the task they want to perform.

**Wireless Communication using Arduino and RF** Module: Tools: Arduino IDE, Proteus Design Suite

- ➔ We used a 433MHz RF wireless transmitter and receiver module for wireless communication.
- ➔ Interfaced RF Module with the Arduino for transmitting and receiving data.
- ➔ Since module itself cannot work on its own as it requires some kind of encoding before being transmitted and decoding after being received,

**Weather Monitoring Using Thinspeak: Tools:** Thingspeak**,** Visual Studio Code (PlatformIO)

- ➔ Interfaced ESP32 DEVKIT V1 DOIT with DH22, Robocraze 5V Soil Moisture and PH-4502C sensor.
- ➔ Uploaded the data to Thingspeak which is a IoT application and API to store data and retrieve it

### Major

**Fake News Detection : Technologies**: Python, TF-iDF Vectorizer, Sklearn

- ➔ Performed removal of stop words, lemmatization, missing data Imputation, count vectorization and Tf-IDF transformation on a complex dataset consisting of 20,000 news articles to improve the performance of the classifiers.
- ➔ Compared and contrasted the performance of common machine learning classifiers (totally 11 models) on the dataset and achieved an **accuracy as high as 98%** and **false negative classifications as low as 44 out for the logistic regression classifier tested on 5000 news articles** in the test set.

**Data Science Salary Predictor**: Technologies: Python, Sklearn, Matplotlib, Seaborn, Selenium, Flask, Json, Pickle

- ➔ Created a tool that estimate the salary of a data scientist to help data scientist negotiate their income when they get a job
- ➔ Scrapped more than 1000 job descriptions from (https://www.glassdoor.co.in/index.htm"Glassdoor")
- ➔ Performed data cleaning and feature engineering from the text of each job description to quantify the value companies put on different data science tools like python, excel, aws, and spark.
- ➔ Created different models by optimizing Linear, Lasso, and Random Forest Regressors using GridsearchCV to reach the best model.
- ➔ Built an API using Flask

**Epileptic Seizure Detection using RSFS**: Technologies: Python, Sklearn, Matplotlib, TensorFlow, RSFS

- ➔ Used Random Subset Feature Selection for feature extraction in EEG signals to predict whether patient will suffer from epileptic seizure or not
- ➔ Obtained dataset from Bonn University which consists of both normal and seizure signals
- ➔ Used Butterworth filter to remove noise from the signal and used Fourier Transform
- ➔ After applying RSFS we used classification algorithms like KNN, SVM, ADAB, Decision Tree and Naïve Bayes. Used one Deep Learning Algorithm called LSTM
- ➔ Used different metrics for evaluation like F1 Score, Precision, Recall and Accuracy
- ➔ We reduced the time complexity of training algorithms and compared the accuracy with previous research papers

**Ware-Assistant**: streamlit, pandas, NumPy, seaborn, matplotlib, keras, TensorFlow, statsmodels, sklearn, openpyxl

- ➔ Acquired sales data of a warehouse and predicted the structure of the warehouse for the next 1 year to maximize the sales and the profits of our clients.
- ➔ Cleaned the dataset and converted the data to stationary data
- ➔ Used Autoregressive Integrated Moving Average as benchmark and used LSTM as the deep learning model to predict future monthly sales
- ➔ Created a website using GUI streamlit library to show working of the model which can we used by anyone

## Additional Qualifications / Certifications:

- ➔ Coursera: DEEPLEARNING.AI - Machine Learning, Neural Networks and Deep Learning, Structuring Machine Learning Projects
- ➔ Udemy: Python for Data Science and Machine Learning Bootcamp, 2021 Complete Python Bootcamp from Zero to Hero in Python
- ➔ Codechef : Max Rating of 1610 (3 stars)
- ➔ Corporate Gurukul Global Academic Internship Programme:
    1. National University of Singapore - Data Analytics using Deep Learning
    2. Hewlett Packard Enterprise – Applied Deep Learning

## Areas of interest:

- ➔ Data Science
- ➔ Deep Learning
- ➔ Internet of Things

## Extra-curricular activities:

- ➔ Carnatic Music: Junior Level – Second class in exam
- ➔ Participated in many Olympiads and exams like IMO, IOEL, Sirigannada, NTSE, NSTSE, ICO
- ➔ Football, Cricket

## Key strengths:

- ➔ Hard-working
- ➔ Dedication
- ➔ Determination
- ➔ Positive Attitude

## Personal details:

- ➔ Father’s Name: Venkatarangan M J
- ➔ Mother’s Name: Rekha Venkatarangan
- ➔ Date of birth: 7th September, 2000
- ➔ Gender: Male
- ➔ Nationality: Indian

## Address for communication:

| Permanent Address | Present Address |
|---|---|
| Flat #006, Unnathi Citadel, No. 876, 24th Main Road, J P Nagar 5th Phase, Bengaluru – 560078 | Flat #006, Unnathi Citadel, No. 876, 24th Main Road, J P Nagar 5th Phase, Bengaluru – 560078 |
| **Contact No: 08026582625** | **Contact No: 08026582625** |
| **Email id: abhiram2000@gmail.com** | **Email id: abhiram2000@gmail.com** |

**I, hereby declare that the above-mentioned information is true to the best of my knowledge and belief.**

**Place: Bengaluru** **Abhiram M V**