S. HARIVIKNESH

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Educational Background

2017-2021	B.Tech, Electronics and communication engineering , National Institute of technology, Puducherry CGPA 9.50
2017	Class XII CBSE: 96.05%
2015	Class X CBSE: GPA 10.0

Skills and Interests

General:	Data Science, Machine Learning, Deep Learning
Languages:	Python, C/C++, Java
Development:	Native Android dev, Bacekend web dev
Tools:	AWS, SQL,MATLAB, Firebase, Git
Libraries:	OpenCV, Flask, Keras, Scikit-Learn, Pandas

Experience

Machine Learning Intern

Dec 19- Jan 20

Cuberootz

- Developed a computer vision model that predicts and segments the diseased parts of plant from given leaf image using deep learning (CNN) and image processing with Keras and openCV libraries.

- Developed a web app for uploading images, training and evaluating the model using Flask and deployed it on AWS.

Android developer

Sep 19- Jan 20

Neso Academy: Online courses

- Working as a core member in a team of 4 for developing an Udemy like Android app that provides online courses in engineering domain.

- Working on Implementation of UI and functionality for displaying courses/chapters, managing user accounts, cart, search, recommendations, purchases and payments using Firebase as backend.

- The core challenge of this project is to optimize the app and making it scalable to support thousands of existing users.

Android developer

Nov 18- Apr 19

Mangoo: Online food delivery

- Worked as a lead member in a 5 member team for developing an online food delivery Android app (similiar to Swiggy) from scratch.

- Developed the frontend for restaurant and admin counterparts of the app . Used Firebase as backend to manage and track status of each order.

- Implimented various features like real tme tracking of driver, admin panel, updatng menu, analysing orders, push notificatons.

Projects

Prediction of personality using tweets

Deep
Learning

- Built a deep learning model (multlayer perceptron) that classifies one's personality into 16 categories like introvert, judgemental, perceiving etc using his/her tweets.
- Trained the model using MBTI dataset from kaggle and carried out basic NLP tasks like stemming, vectorising using scikit learn.
- Made a Python program that uses this trained model and Twitter API to fetch recent 50 tweets or arbitary user and predict his personality.

App and Website Backend for college fests

Android +
Web

- Created companion android apps for our college's cultural fest (Leciel) and technical fest (Gyanith).
- Implemented features like showing live events, notficaton remainder for favourite events, real tme updates etc. by using Firebase as backend .
- Developed custom API for above and integrated fest website's databse into app without firebase in next fest.
- Developed the backend for fest website that handles user signup, login, verification and event registrations using PHP and MySQL .

Achievements

- Selected for nationals under INSPIRE programme for a science project named **'Mini home cleaning bot'.**
- Top 1 percentile (All India) in Physics in Class XII CBSE.

Position of Responsibilities

- Head of app develpment team of our college, pioneer in establishing app development club/team in our college.
- Hosted a workshop on **Natural Language Processing** at our college technical fest.

Volunteer Experiences

Member of NGO

- Been a member of 'Knowledge-now' , a NGO founded by students of NIT-PY that aims in improving knowledge of rural students by teaching students in and round slums of Karaikal**.**