S. HARIVIKNESH

Email: hariviknesh@gmail.com
Github: github.com/hariviknesh

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, JavaScript
Development:	Native Android dev, Web dev, MERN Stack
Tools:	AWS, SQL, MATLAB, Firebase, Git
Libraries:	OpenCV, Flask, Keras, Scikit-Learn, Pandas

Experience

Machine Learning Intern
Cuberootz

Dec 19-Jan 20

- Developed a computer vision model that predicts and segments the diseased parts of the plant from a 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
Neso Academy: Online courses

Sep 19-Jan 20

- Working as a core member in a team of 4 for developing an Udemy like Android app that provides online courses in the 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
Mangoo: Online food delivery

Nov 18-Apr 19

- Worked as a lead member in a 5 member team for developing an online food delivery Android app (similar to Swiggy) from scratch.
- Developed the frontend for restaurant and admin counterparts of the app. Used Firebase as a backend to manage and track the status of each order.
- Implemented various features like real-time tracking of a driver, admin panel, updating the menu, analysing orders, push notifications.

Projects

SuperChat: Realtime chat

Web
- Developed a real-time chat application that enables users to chat with multiple users simultaneously in real-time without leaving the screen.
- Used React, Node + Express, MongoDB and Socket.io (for real-time communication).

Prediction of personality using tweets

Deep Learning
- Built a simple DL model (multilayer 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 of an arbitrary user and predict his personality.

Apps for college fests

Android
- Created companion android apps for our college's cultural fest (Le Ciel) and technical fest (Gyanith) with cool UI.
- Implemented features like showing live events, notification remainder for favourite events, real-time updates etc. by using Firebase as a backend.

Website backend for college fest

Web
- Developed the backend for college technical fest, which involved features like login and signup, booking tickets for events, verifying users by QR using PHP and MySQL.
- Developed the custom API for Android app to integrate with the website.

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 the app development team of our college, a 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', an NGO founded by students of NIT-PY that aims in improving knowledge of rural students by teaching students in and around slums of Karaikal**.**