ABHINAV TEMBULKAR

Delhi, India

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Experience

Insurance Samadhan Ltd   **September 2022 – April 2023**

Fullstack Developer   *Delhi, India*

- **Increased customer engagement by 30%** by creating **Chatbot** flows on Whatsapp and Main site. Integrated bot with company's systems using **REST APIs** in **Node.js** to enable seamless data sharing and complaint collection.
- **Collaborated with team members** to migrate the front-end of the internal **admin portal** from AngularJS to ReactJS, **improving employee engagement by 25%**.
- Ensured smooth operation of critical backend systems by **resolving API and performance issues**, performing regular maintenance via **shell scripting**, and ensuring MongoDB integrity by **data validation/error handling**.

Hudle Ltd   **November 2021 – July 2022**

Fullstack Developer   *Delhi, India*

- Developed **Recurring Games**, a Google Calendar-like recurring event feature, for the debut of **Groups & Games** in Hudle App. Used Cron jobs, **MySQL** database, **NestJS** backend and **AWS Lambda** for efficient **Game scheduling**
- Introduced **WhatsApp-like features** in Groups & Games, including **Pin, Mute,** and **Star** conversations. Employed **MySQL** database and **Redis** caches for seamless implementation.
- **Redeveloped main website** hudle.in in NextJS , a ReactJS framework leading to **40 % increase in web traffic**.

JMoon Technologies Ltd   **February 2021 – April 2021**

Machine Learning Intern   *Delhi, India*

- Built backend for company's **Investment decision-making** app smarterangel.com using **Flask**, a Python framework and **MongoDB** database. **Integrated** the price prediction model with backend for running model on **API queries**.
- **Automated model training** tasks for the price prediction ML model using time scheduling libraries in Python and improved their performance using **Keras**.

Personal Projects

FaceMaskDetector | *TensorflowJS, Azure* | Link   **August 2020**

- Developed a deep learning based **face mask detector** using TensorFlow.js and **modified ResNet 152 v2** architecture, achieving an accuracy over **95%**. Based on the final year Research project on **Real-time face mask detection**
- Model runs on web page itself, eliminating need for backend servers, reducing detection times and computational costs.

SwiftMask | *OpenCV, Python* | Link   **October 2023**

- Developed a **fast and computationally efficient** face mask detector using **Haar Cascades and facial landmarks**. The model is purely machine learning-based, making it ideal for deployment on resource-constrained devices.

Temperament Assessor | *Pytorch, Python* | Link   **September 2021**

- Developed a **PyTorch-based NLP** model with over **95%** accuracy in predicting movie sentiment (positive or negative). This **SWEM-based** model can be used for recommender systems, fake review detection, and public opinion tracking.

Education

University School of Information Communication and Technology   **2017 - 2021**

Bachelor of Technology, Computer Science and Engineering   *CGPA: 7.96*

Relevant Coursework

- Data Structures
- Algorithms
- Artificial Intelligence
- Soft Computing
- Operating Systems
- Computer Architecture

Technical Skills

Languages: C++, Python, Octave, Javascript, Linux
Artificial Intelligence: Tensorflow, Pytorch, OpenCV, NumPy, OpenAIGym, Scikit-learn
Web Technologies: REST APIs, Flask, NodeJS, Git , MySQL, Bash

Achievements

- Solved over **350+** problems on Leetcode, GeeksForGeeks, Hackerrank.
- Rated **6 star** in problem solving on **Hackerrank**.