

Angad Singh

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EDUCATION

Vellore Institute of Technology (VIT), Chennai Campus

Chennai, Tamil Nadu

Bachelor Of Technology in Computer Science with specialization in Cyber Physical Systems

July 2021 – Present

- Cumulative GPA : **8.77/10.0**

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C/C++, Javascript, SQL, HTML5/CSS3, Solidity
- **Core Knowledge:** DSA, OOPS, DBMS, OS, CN, Data Science, ML
- **Technologies/Frameworks/Databases/Developer Tools/Libraries:** ReactJS, Flask, Node.js, Git, GitHub, Web3.js, VS Code, Google Collab, Jupyter Notebooks, Windows, Linux, STL, numpy, pandas, scipy, sk-learn, nltk, tensorflow

WORK EXPERIENCE

SmartInternz - Externship Program

Remote

AI/ML Intern

Aug 2023 – Nov 2023

- Innovated a healthcare data analytics platform by integrating data sources, optimizing backend workflows, and implementing efficient ML algorithms.
- Improved data processing efficiency by **30%** and improved disease detection accuracy to **85%+** by streamlining ETL processes and optimizing SQL queries.
- Collaborated with front-end developers to design a user-friendly interface using JavaScript, integrating custom DL models for disease detection, resulting in a **20%** increase in user engagement and enhanced platform versatility, employing Agile methodology.

PROJECTS

ExamSecure - HTML5, CSS3, JavaScript, Solidity, React, Web3.js, Node.js, Flask, OpenCV Sep 2024 - Nov 2024

- Implemented a secure online exam platform with real-time proctoring using FaceDB and OpenCV to detect and flag suspicious activities.
- Built an efficient backend system using Flask and FaceDB, ensuring seamless user authentication and secure data storage/access through Blockchain.
- **Impact:** Improved exam integrity by **40%** and offered an efficient solution for remote education institutions to conduct exams securely.

MindSync+ - HTML5, CSS3, JavaScript, Flask, MySQL, Tensorflow, Google Colab Aug 2023 - Nov 2023

- Innovated an end-to-end healthcare platform for detecting Alzheimer's stages from MRI scans, incorporating a login and complaint registration system. Integrated ML models such as custom CNNs, VGG16, and ResNet50 to optimize disease detection.
- Designed a user-friendly interface and optimized backend systems using Flask and MySQL. Streamlined ETL processes and improved data processing efficiency by **30%**.
- **Impact:** Achieved **85%+** disease detection accuracy, increased user engagement by **20%** through a seamless interface, and enhanced platform versatility for real-world healthcare applications.

Sorting Hat - HTML5, CSS3, JavaScript, Flask, Tensorflow, Google Colab July 2023 - Aug 2023

- Built a machine learning model using a Gaussian Classifier to classify individuals into houses from the Harry Potter Universe based on the Big Five Personality Score.
- Achieved an **81.34%** model accuracy, showcasing the effectiveness of personality-based predictive analysis.
- **Impact:** Engaged users with an interactive personality classification system while demonstrating real-world ML applications in entertainment.

ACHIEVEMENTS

- Secured **Global Rank 881** among **28234** participants in **LeetCode Biweekly Contest 122, 2024**.
- My Team secured **Rank 10** among around **100 teams** for our project **MindSync+** covered in my previous internship in **SmartInternz**.