Patnala Shyam Ram

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Education

IIT Hyderabad   **July 2024**
Bachelor of Technology in Chemical Engineering   *CGPA: 7.25*

Sri Chaitanya Junior College   **May 2019**
Higher Secondary School (APBIE)   *CGPA: 9.94*

Experience

Clay Engine Pvt Ltd   **May 2024 – June 2024**
Software Development Intern

- Developed a responsive and interactive login page with integrated essential validations.
- Implemented lightweight data validation, manipulation and sorting functionalities to meet project requirements.
- Gained valuable experience in working with API's.

Projects

Job Portal App | *MERN*   **2024**

- Designed and developed a multi-user application for users to search and post jobs.
- Utilized MongoDB as the database to store and retrieve data, developed the server-side using Express.js, implemented the responsive user interface using React.js .
- Implemented authentication and authorization features for secure user access to different application resources.

Real-Time Face Mask Detection System | *python, openCV, Tensorflow, Keras*   **2023**

- Designed a convolutional neural network (CNN) model to accurately identify face masks in real-time using webcam input.
- Utilized Python, OpenCV, and TensorFlow/Keras to develop a robust solution for detecting face masks in live video streams.
- Ensured high precision and reliability through extensive model training and optimization, resulting in a highly accurate detection system.

Path Finding Visualizer | *Python, Algorithms*   **2023**

- Implemented a GUI which finds the optimal path in a maze that is generated randomly through recursive division algorithm
- Implemented real-time updates to display the A* algorithm's progress, highlighting the visited nodes and the path.

Personal Portfolio Website | *JavaScript, BootStrap, jQuery, HTML, CSS*   **2023**

- Developed a dynamic portfolio website using JavaScript, jQuery, and Bootstrap to showcase web development skills and deployed the website on AWS.

Stochastic Simulation of Covid-19 Epidemic | *C, Matlab*   **2022**

- Implemented a graph-based model to represent the spread of COVID-19 epidemic.
- Simulated the transmission dynamics, accounting for infection rates, incubation periods, and recovery rates based on the latest scientific knowledge.

Development and Management of Database | *Python, Postgre SQL*   **2021**

- Designed a flexible and efficient relational database from scratch for a scientific research paper inquiry website with the 'referential integrity' maintained.
- Developed informative ER diagrams, efficient relational table schema and retrieved information with complex queries.

Technical Skills

Languages: Python, C/C++, HTML/CSS, JavaScript, SQL
Web Development: MERN Stack, bootstrap, jQuery
Machine Learning: Scikit-Learn, Tensorflow, Keras
Coursework: Data Structures and Algorithms, Database Management Systems, Operating Systems,Probability, Statistics, Linear Algebra, Calculus, Differential Equations

Achievements

- Secured **AIR 11375** among 0.15 million candidates appearing for the test in JEE Advanced 2019.
- Expert on codeforces(Peak Rating: 1560).
- Secured 2497 Rank in AP Eamcet out of 3.38 Lakh candidates .