ATHARVA TIWARI

Hyderabad, India

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EDUCATION

Keshav Memorial Institute of Technology   Expected Graduation, June 2025
Bachelor of Technology in Computer Science Engineering

FIITJEE Junior College   May 2019 - April 2021
Intermediate Maths, Physics, Chemistry

Vasavi Public School   March 2015 - April 2019
Central Board of Secondary Education

PROJECTS

Genomic Prediction Of Oryza Sativa Traits Using Machine Learning
- Developed a sophisticated full-stack web application to forecast crucial rice phenotypes, such as plant height and yield, by leveraging genomic sequences. Integrated advanced machine learning methodologies, including Random Forest and Decision Trees models, to meticulously analyze genomic data, resulting in precise predictions.
- Tech Stack: HTML, CSS, BootStrap, Flask, Machine Learning Models: Random Forest, Decision Trees

Stock Price Prediction using Neural Networks
- Engineered a comprehensive stock market prediction project in Python, utilizing Pandas, YFinance, Keras, and Streamlit. Applied LSTM and ReLU models for accurate predictions based on moving average data.
- Tech Stack: Python, Streamlit

Development and Evaluation of Drone Mounted Sprayer for Pesticide Applications to Crops
- Spearheaded the development of an innovative autonomous drone-mounted sprayer, engineered to deliver precise pesticide applications across various crop fields. Implemented features such as geo-fencing, automated spraying mechanisms, and obstacle detection and avoidance systems to ensure optimal performance and safety during pesticide application.
- Tech Stack: Python, HTML, CSS, Dronekit

CodePen Clone
- Developed a fully functional CodePen Clone with an integrated HTML, CSS, and JavaScript compiler. The project allows users to write, compile, and preview code in real-time, featuring a clean user interface and responsive design
- Tech Stack: ReactJS

COURSE WORK

- Operating Systems
- Competitive Programming
- Neural Networks
- Database Management Systems (DBMS)
- Cloud Computing
- Object-Oriented Programming (OOPs)
- Data Structures and Algorithms
- Software Engineering
- Machine Learning

POSITION OF RESPONSIBILITY

Organizing Committee Member
- Served as a member of the College Organizing Committee, contributing to brainstorming and ideation for innovative events across campus.

Class Representative
- Elected as Class Representative, serving as the liaison between students and faculty while effectively addressing academic and extracurricular concerns. Took initiative in organizing class activities and fostering a collaborative environment.

House Prefect
- Elected as House Prefect and demonstrated strong leadership skills by organizing and actively participating in various competitions, leading the team to multiple victories.

SKILLS

Languages: C, C++, Java, Python, SQL, JavaScript

Development Tools: AWS, Docker, VS Code, IntelliJ, PyCharm, Jenkins, Eclipse

Frameworks: Express.js, React.js, Node.js, Flask, Bootstrap, MaterialUI

Libraries: Pandas, NumPy, Matplotlib, Keras, TensorFlow

Version Control: Git/GitHub