

ATHARVA TIWARI

Hyderabad, India

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EDUCATION

Keshav Memorial Institute of Technology
Bachelor of Technology in Computer Science Engineering

Expected Graduation, June 2025

PROJECTS

Genomic Prediction Of Oryza Sativa Traits Using Machine Learning

- Developed a 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

- Developed Ground Control Station (GCS) for autonomous drone, enhancing the user interface and real-time data monitoring. Integrated flight path planning, telemetry analysis, and mission control features to optimize drone efficiency in agriculture. Ensured robust communication for seamless control and real-time feedback.
- 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

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