Saksham Raut

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Education

VIT Bhopal University Bhopal, India
Integrated Mtech in Artificial Intelligence; **CGPA: 9.23** 2nd year student

- Relevant Courses: Data Structures & Algorithms, Operating Systems, Object-Oriented Programming, Database Management Systems,Computer Architecture and Organization

Utkarsha School,Mumbai Mumbai, India
(SSC); **Percentage: 97.4%** March 2022

Pace Jr college, Mumbai Mumbai, India
(HSC); **Percentage: 81.4%** February 2024

Projects

Stock Prediction Using Machine Learning

Stock Prediction is a machine learning–based system designed to forecast future stock prices by analyzing historical market data and identifying underlying patterns. It helps investors make data-driven decisions by leveraging statistical analysis and predictive modeling to estimate price movements with improved accuracy.

- **Data Processing & Feature Engineering (Python, Pandas, NumPy):** Cleaned and preprocessed historical stock data, handled missing values, performed normalization, and engineered technical indicators such as moving averages, RSI, and MACD.
- **Machine Learning Models (Scikit-learn):** Implemented and evaluated regression and classification models including Linear Regression, Random Forest, and XGBoost to predict stock price trends and returns.

Autonomous Delivery Agent

Autonomous Delivery Agent is a Python-based intelligent system designed to autonomously navigate an environment and deliver packages to specified locations. The agent leverages path planning, decision-making algorithms, and sensor-based perception to optimize delivery routes while avoiding obstacles and minimizing delivery time.

- **Environment Modeling & Simulation (Python):** Designed a grid-based environment to simulate real-world delivery scenarios, including dynamic obstacles, multiple delivery points, and varying terrain constraints.
- **Path Planning & Decision Making (A*, Dijkstra, BFS):** Implemented classical search and planning algorithms to compute optimal routes, ensuring collision-free and efficient navigation.
- **Autonomous Control & Evaluation (Python):** Developed agent logic for real-time decision-making, performance tracking, and route optimization, achieving reduced delivery time and improved navigation efficiency across test scenarios.

ACHIEVEMENTS

- Rating 417 **o**n Codeforces
- **CGPA: 9.23** (S Grades: DSA, Computer Architecture and Organization, Calculus, Electrical circuits)

Certificates

- **Data Structures and Algorithms(c++)** — Udemy (Abdul Bari)
- **Java** — Vityarthi
- **Python** — Vityarthi
- **Matlab**

Skills Summary

- **Programming Languages:** C++, C, Java, Python, JavaScript, Bash, SQL
- **Frameworks & Libraries:** Node.js, React, Django
- **Tools & Technologies:** Git, MySQL, VS Code
- **Operating Systems:** Linux, Windows, macOS

- **Soft Skills:** Leadership, Public Speaking, Mentorship, Teaching

Leadership Experience

Software Development Club Aug 2025 – Present
Core Member — Technical Team

Google Developer Groups Community at VIT Bhopal Dec 2025 – Present
Core Member — Videography Team

NSS VIT Bhopal Jul 2025 – Present
Core Member — Event Management Team