Yash Ambodekar

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Education

Vishwakarma Institute Of Technology, Pune **2023-2027**
Bachelor of Technology in Electronics and Telecommunication *CGPA-8.95*

Nanasaheb Zulal Bhilajirao Patil College, Dhule **2021-2023**
Higher and Secondary Education in Science *Percentage: 74.17%*

Jaihind HighSchool, Dhule **2020-2021**
Secondary and Higher Secondary Education *Percentage: 92.40%*

Projects

Inventory Stock-Secure | *MERN Stack, React Native, Python, YOLOv8n, OpenCV, MongoDB* **March 2025**

- Developed an AI-powered **theft detection system** integrating inventory management and real-time surveillance.
- Built an **admin dashboard** for **staff registration**, **inventory updates**, and **surveillance monitoring**.
- Implemented **YOLOv8n** with **OpenCV** to track stock in real time and detect unauthorized item removal.
- Developed a **React Native** app for staff stock registration, syncing data with inventory and theft detection logic.

StockVision AI | *MERN Stack, FastAPI, Python, LSTM, Prophet, MongoDB* **Jan 2025 - Feb 2025**

- Developed an AI-powered **stock price prediction system** using time series forecasting techniques.
- Built an **admin dashboard** for **real-time stock data**, **forecasting models**, and **trend visualization**.
- Implemented **LSTM** and **Prophet** to predict stock trends, integrating **yfinance** API for data fetching.
- Developed a **FastAPI** backend to process stock data, deploy ML models, and provide insights on future trends.

Image Steganography | *Python, OpenCV, Cryptography* **Jan 2024 – May 2024**

- Implemented Least Significant Bit (LSB) insertion to securely embed hidden data within digital images.
- Utilized **OpenCV** for image processing and Python for data embedding and extraction.
- Explored vulnerabilities of LSB and integrated cryptographic enhancements for improved security.

Effects of Agnihotra | *Python, Statistical Analysis, Data Visualization, Survey Research* **June 2024 - Dec 2024**

- Analyzed the impact of **Agnihotra** on life satisfaction using survey data from 205 participants.
- Applied **Mann-Whitney U test** and **descriptive statistics** to compare practitioners and non-practitioners.
- Used **Python (pandas, NumPy)** for data processing and **Matplotlib, Seaborn** for visualization.
- Found significantly higher life satisfaction among Agnihotra practitioners (**p-value ¡ 0.05**).

Technical Skills

Languages: Java, Python, C, SQL, JavaScript
Databases and Developer Tools: MongoDB, MySQL, Git, GitHub
Frameworks and Libraries: ReactJS, React Native, Node.js, Express.js,OpenCV, Pandas, NumPy
Relevant Courseworks: Data Structures, OOP, Database Management System, Computer Networks, Machine Learning, AI

Achievements

- Earned **2nd Runner Up** place in Innovation Expo for the project **Effects of Agnihotra** Organised By Department of Multidisciplinary Enginnering , Vishwakarma Institute of Technology , Pune
- Qualified for the Second Round in "TechNova - Igniting Brilliance (Season 1)" Hackathon conducted by ESSPL.
- solved 175+ DSA questions on **LeetCode**
- **Codechef** maximum rating **1216**

Volunteering Experience

- Served the position of Coordinator continuing as Head for the Video Editing Domain in the Official Student Development Commitee of our College "Abhivriddhi".
- Volunteered during night patrolling with the Police Department to maintain law and order and ensuring public safety.