Atharva Shinde

+91 8087040190 shindeathrv02@gmail.com
https://www.linkedin.com/in/atharva-shinde- https://github.com/auth-02

Education

Vishwakarma Institue of Technology, Pune 2025
B. Tech in Artificial Intelligence and Data Science (CGPA: 8.52) *Pune, Maharashtra*
Raosaheb Rupchand Junior College, Jalgaon 2021
HSC (86.83) *Jalgaon, Maharashtra*
St. Joseph's Convent Sr. Sec. School, Jalgaon 2019
CBSE (91.4) *Jalgaon, Maharashtra*

Work Experience

Python and AI Intern | *Zapient Digital, Pune* June, 2024

- Developed the **Rank Ordering Module** for the Python-based backend using Flask, SQL, and Generative AI, enhancing the rank ordering process by **76%**.
- Implemented and optimized policy rules for customer accounts using **advanced similarity-matching algorithms**.

Technical Skills

Languages : C, C++, Python, SQL, HTML/CSS, Javascript, Java
Technologies : NumPy, Pandas, scikit-learn, Matplotlib, Django, Flask, TensorFlow, MongoDB, OpenCV, YOLO, NLP, LLM
Concepts : Data Structure & Algorithms, Object-Oriented Programming, DBMS, Operating Systems, Generative AI

Projects

Geo Guide | *Python, TensorFlow, OpenCV, YOLOv8*

- Applied machine learning techniques to develop Vanguard, achieving an accuracy of **88.5%** in dynamic decision-making using YOLOv8 object detection.
- Optimized navigation with **Shortest Path Algorithms** and geospatial analysis for hostile environments.

Self-Learning AI-Powered PDF to Structured Data Converter | *Python, GROQ, Mistral LLM, Pandas, Streamlit*

- Designed and developed an AI-powered PDF to data converter to extract information from PDF documents and convert it into structured JSON format.
- Utilized **GROQ** with **Mistral LLM** for enhanced accuracy and efficiency in data extraction.
- Enabled insights on **schema-based extracted data** through visualization using Pandas AI component.

Knife Attack Prediction System (Video Analytics) | *Python, OpenCV, TensorFlow, MediaPipe, YOLO, LLava LLM*

- Developed knife attack prediction system using YOLOv8 and MediaPipe, achieving **91%** accuracy.
- Utilized **advanced video preprocessing** techniques like denoising and stabilization for high-quality input.
- Implemented multimodal fusion techniques with **LLava LLM** for robust behavior analysis and explainable threat.

AI-Powered Personalized Learning Assistant | *Python, LLava LLM, PyTube, YouTube API, Streamlit*

- Developed an AI-powered learning assistant to **organize and enhance educational video content**.
- Achieved key milestones in functionality development, including meta-data extraction, **intelligent search**, **context-aware question answering**, and **transcript search**.

Achievements

- Ranked **top 4** out of **565+ teams** at National level **GenAI Hackathon** - LogiTHON'24.
- Secured **2nd place** among **50+ teams** at **ML Olympiad** - Kaggle Competition hosted by Google Developers Groups.

Conferences & Research Work

- **Research Paper:** "Horse Race Prediction Using ML Algorithms" published in **Springer**, 2023.
- **Best Paper Award:** SPICON, 2022 for "Industry 4.0 - Make in India" Initiative. **(Scopus-Indexed)**

Position of Responsibility

AI/ML Secretary | *Computer Society of India, VIT Pune*

- Led AI/ML initiatives including **workshops**, **hackathons**, and **projects**, implementing ML models and algorithms.