

Sahil Jadhav

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Professional Summary

Fourth-year Artificial Intelligence and Data Science engineering student with hands-on experience in Machine Learning and deep learning. Developed real-world AI applications including RAG-based assistants, image forgery detection systems, and intelligent chat platforms using Django, TensorFlow, and NLP frameworks. Proven ability to lead teams, conduct technical workshops, and collaborate effectively in hackathons, demonstrating strong problem-solving, communication, and leadership skills. Driven to apply AI engineering to solve real-world problems through scalable and innovative solutions.

Skills

Programming Languages: Python, Java


Web Development & Backend: HTML, CSS, Django, Flask

Machine Learning & AI: TensorFlow, scikit-learn, NumPy, Pandas, Matplotlib, Seaborn

NLP & Conversational AI: Hugging Face Transformers, LangChain, Rasa, Dialogflow, Ollama

Databases & Tools: SQL, Postgres, Supabase, Git, GitHub, Google Colab, AWS (Basic)

Projects

Digital Twin | Python, Flask, Supabase (pgvector), Llama 3.2, Streamlit, Expo  Live Demo

- Built a Retrieval-Augmented Generation (RAG) system enabling conversational querying of resume data.
- Implemented hybrid search using semantic vector retrieval and keyword-based filtering for accurate responses.
- Developed a Streamlit web dashboard and an Expo-based mobile app for interactive access.

MAVROS: Multi-directional Adaptive Vehicle Routing Optimisation System  GitHub
(Ongoing) Python, NumPy, OR-Tools, Optimization

- Proposed a novel hybrid approach for the Vehicle Routing Problem with Time Windows (VRPTW).
- Formulated a combination of Multiple Insertion Heuristic (MIH) for initial route construction with a Memetic Algorithm enhanced by Multidirectional Search (MDS) as the local search strategy.
- Focused on achieving improved route efficiency while satisfying vehicle capacity, delivery deadlines, and strict time window constraints.

Leadership & Achievements

President – SHAIDS (Students Hive of Artificial Intelligence and Data Science), 2024
Datta Meghe College of Engineering

- Led departmental initiatives and organized technical workshops and seminars.
- **Smart India Hackathon (SIH) 2025 Finalist** — contributed to a national-level team solving a real-world problem. [\[Link\]](#)

Certifications

- Power BI Essential Training (2022) [\[Link\]](#)
- NPTEL Big Data Computing Certificate [\[Link\]](#)
- Virtual Internship (Machine Learning), EduSkill - AICTE (10 Weeks) [\[Link\]](#)
- AWS Academy Graduate - AWS Academy Machine Learning for Natural Language Processing [\[Link\]](#)

Education

Datta Meghe College of Engineering, B.E. in Artificial Intelligence & Data Science 2022 – Present

Arunodaya Public School (CBSE) Higher Secondary Certificate (HSC), Percentage: 76% 2020 – 2022
Secondary School Certificate (SSC), Percentage: 84% 2020