Aadilnawaz Shaikh

Pune, Maharashtra

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Education

Vishwakarma Institute Of Technology, Pune **Nov 2022 – June 2026**
B.tech in Artificial Intelligence and Data Science *CGPA-8.63*

Sri Chaitanya junior college, Aundh **Nov 2020 – March 2022**
Higher and Secondary Education in Science *Percentage: 90.83*

R.M.Dhariwal English Medium School, Shirur **June 2019 – March 2020**
Secondary and Higher Secondary Education *Percentage: 87.80*

Relevant Coursework

- Data Structures
- Software Methodology
- OOP
- Database Management
- Artificial Intelligence
- Computer Network
- Computer Architecture
- Machine Learning

Technical Skills

Programming Languages: Python, JavaScript, C/C++, HTML/CSS, Bash
Data Science & ML/DL: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, PyTorch, OpenCV, Transformers, CLIP, BART, Streamlit
Web & Frameworks: Node.js, Express, Flask
DevOps & Tools: Git, GitHub, Docker, Linux, Firebase, Postman
Database & Cloud: Firebase Firestore, SQL, NoSQL
Geospatial & Mapping: Shapely, KML, Google MyMaps, Geospatial Mapping APIs
Validation & Testing: PyTest, Unit Testing, Black-box/White-box Testing

Projects

Deepfake Image Detection using machine learning | *PyTorch, Streamlit, OpenCV, Git/GitHub* **March 2024**
- Developed a web application for detecting AI-generated (deepfake) images using the ResNet-50 model, ensuring high accuracy in classification.
- Designed an intuitive Streamlit-based interface for image upload and real-time classification with confidence scores.
- Implemented both white-box and black-box testing techniques to evaluate model robustness and improve generalization.

SmartNewsPost| *Python, OpenCV,GPT/BART,Flask,REST API* **July 2024**
- Developed a comprehensive AI-driven system for automating the summarization and publication of news articles, ensuring efficient content management and distribution.
- Integrated OpenCV and image retrieval APIs to automatically fetch and attach relevant images to the summarized articles, improving visual engagement.
- Built and deployed a web interface using Flask, enabling real-time publishing of summarized content directly to a forum website via REST API integration.
- Conducted extensive testing and validation to ensure the system's accuracy, reliability, and user-friendly experience, resulting in a significant reduction in manual content processing time.
- Handled synchronization challenges and ensured a consistent user experience across different clients.

Geo-Clean | *React JS, Node JS, Geospatial Mapping, KML, Mongo DB Atlas, Google MyMaps, GitHub* **Feb 2025**
- Developed a full stack geospatial complaint management system for Pune Municipal Corporation (PMC), mapping 15 wards and Mukaddam areas using KML data and GIS.
- Implemented CLIP to verify user complaints via images and workers' responses.
- Implemented polygon-based geolocation detection using Shapely to automatically assign complaints to the correct Sanitary Inspector and Mukaddam based on latitude and longitude.

Mech Q&A Bot | *Python, Hugging Face, LangChain, ChromaDB, Ollama* **March 2025**
- Developed a Retrieval-Augmented Generation (RAG) chatbot for mechanical engineering using a fine-tuned Llama 3.2-1B model.
- Automated data collection, cleaning, and formatting for domain-specific training.
- Integrated ChromaDB vector search and LangChain for semantic retrieval and context-aware answers.
- Enabled real-time, accurate responses to technical queries through an interactive interface.