

AAYUSH CHAUDHARI

+91 8830466403 | aayush.chaudhari1607@gmail.com | [LinkedIn](#) | [GitHub](#) | Mumbai, India

EDUCATION

B. Tech in Computer Science & Engineering (Data Science), DJSCE

8.3/10 | 2023 - 2027

EXPERIENCE

Applied Python Developer Intern, Utkarsh Minds Institute

June 2024 – August 2024

- Analyzed datasets with over 50,000 rows across 5 Data Science capstone projects using Python, NumPy, and Pandas.
- Delivered data-driven solutions for 3 real-world case studies in collaboration with Utkarsh Minds under the mentorship of Dr. Pranav Nerurkar.

PROJECTS

Shetkari - AI Driven Crop Disease Detector and Predictor: (OpenCV, TensorFlow, CNN, Random Forest Classifier, Flutter, Firebase) [GitHub Link](#)

- Automated and simplified the 4–5 month college placement process, reducing manual effort and streamlining data management for efficient operations.
- Built a Flutter-based mobile app to connect employers and students during placements; developed a reliable and scalable backend using Node.js, MongoDB, and Express for seamless job postings.

ArtiFACTS - AI Driven Counterfeit Artifact Detection and 3D Reconstruction of Broken Artifacts

Application: (OpenCV, TensorFlow, CNN, MiDas, Cosine similarity, Flask) [GitHub Link](#)

- Engineered a CNN-based computer vision model to detect antique artifacts with 95% accuracy and deliver detailed information, including 3D representations using the MiDaS model and reconstruction techniques.
- Implemented a cosine similarity module to verify artifact authenticity with 96% accuracy, improving reliability for historical validation.

Time Series Model to Forecast Crime and Plotting Heatmap based on the Risk Score: (LSTM, Deep Learning, ARIMA, Prophet, RNN, Folium, Plotly) [GitHub Link](#)

- Combined ARIMA and Prophet into a hybrid time series model to forecast crime trends from the Los Angeles crime dataset, achieving RMSE scores of 1.047 (24-hour) and 2.098 (7-day).
- Created interactive crime risk heatmaps using Graph Neural Networks (GNN), Folium, and Plotly to visualize forecasted hotspots.

InnoGuard - Early Identification of Financial Fraud in Small Businesses: (OCR, Cosine similarity, SARIMAX Model, TensorFlow, Flask) [GitHub Link](#)

- Built a hybrid time series model by combining ARIMA and Prophet to forecast crime trends using the Los Angeles crime dataset, achieving RMSE scores of 1.047 (24-hour) and 2.098 (7-day).
- Applied Graph Neural Networks (GNN), Folium, and Plotly to generate interactive crime risk heatmaps for visualizing forecasted hotspots.

WardrobeMirror - AI Driven Similar Clothing Detection Application: (OpenCV, CNN, PyTorch, HuggingFace, RoboFlow) [GitHub Link](#)

- Built a web application that accepts images of women's clothing as input and uses computer vision to detect and highlight the outfit with bounding boxes.
- Implemented a similarity-based retrieval system to display the top 10 matching outfits from the dataset based on the input image.

SKILLS

Programming Languages: C, C++, Python, Dart, Java

Machine Learning: Data Analytics, Deep Learning, Time Series Analysis, Computer Vision, Transfer Learning

Frameworks: Scikit-learn, TensorFlow, PyTorch, Keras, OpenCV, Folium, ARIMA, Prophet, Flask

Data Tools: Tableau, PowerBI, SQL, Git, HuggingFace, Roboflow

Others: Figma, AutoCAD, Canva

POSITIONS OF RESPONSIBILITY

Machine Learning and Research Co Committee Member, DJS GDG

October 2024 - Present

Data Engineering Mentee, DJS Compute

September 2024 - Present

Publicity Co Committee Member, DJS S4DS

September 2024 - Present

ACHIEVEMENTS

- Smart India Hackathon 2024 – Grand Finale