Kaushal Maniyar

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Profile Summary

Data Science master's graduate with one year of experience as a Junior Research Fellow, where I applied data-driven solutions to real-world problems. My background combines strong academic foundations with hands-on expertise in machine learning, big data, and statistical analysis. Proficient in Python and data visualization, I specialize in turning complex information into clear, actionable insights to support impactful decision-making.

Education

Nirma University, Ahmedabad, India — CGPA – 8.68/ 10.0
M.Tech – Data Science — *Aug 2022 – May 2024*

Government Engineering College, Rajkot, India — CGPA – 8.66/ 10.0
B.E. – Computer Engineering — *Aug 2018 – May 2022*

Experience

Junior Research Fellow — June 2024 – Present
Space Application Centre, (ISRO) — *Nirma University, Ahmedabad, India*

- Developing a model to segment floating litter using satellite images and ocean surface data.
- Analyzing raster, multispectral, and multiband imagery with a focus on characteristics, applications, and optimization.
- Working closely with ISRO scientists.
- Project is funded by the Indian Space Research Organisation (ISRO).

Intern – Test Automation Engineer — June 2023 – May 2024
VANTIVA — *Chennai, India*

- Designed a TR-69 RPC message provider for the Automatics framework, enhancing validation for autonomous tests and earning a performance reward.
- Developed scripts to test broadband functionality using Java, Selenium, and Git, significantly reducing the need for human intervention.

Projects

End-to-End Deployment of ElasticNet Trained On Wine Quality Dataset
Python + Scikit-learn + Flask + Docker + AWS ECR/EC2

- Trained a predictive model using ElasticNet regression for accurate forecasting.
- Developed a Flask-based web application to serve model predictions.
- Containerized the application using Docker and deployed it on AWS EC2 for scalable access.

Content Based Movie Recommender System
Python + Scikit-learn + TMDB 5000 Movie Dataset

- Designed and implemented a context-aware movie recommender system using movie tags.
- Converted movie tags into vector representations to capture semantic relationships.
- Utilized vector distance metrics to identify and recommend contextually similar movies.

Computer Vision for Object Detection
Python + OpenCV + TensorFlow/Keras + YOLO

- Train a YOLOv8 or Faster R-CNN model for face/object detection.
- Optimize model performance with data augmentation.

Technical Skills

Data Science and Big Data: Generative AI, Machine Learning, Deep Learning, Natural Language Processing (NLP), Statistics

Visualization & Analytics: Power BI, Microsoft Excel

Programming Languages: Python, SQL, Scala

Python Libraries: NumPy, Pandas, Keras, TensorFlow, Scikit-learn, Seaborn, Matplotlib

Soft Skills: Researching, Creative, Problem-solving, persuasive, Leadership, Adaptability, Teamwork