Mohammed Adil Siraju

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Deep Learning & Machine Learning Engineer

Professional Summary

AI & ML Engineer with a First Class with Distinction in B.E. (AI & ML) and hands-on experience in computer vision, deep learning, and MLOps. Skilled in building and deploying scalable ML solutions using Python, PyTorch, and FastAI. Proven ability to deliver end-to-end AI systems from data preprocessing to real-world deployment. Strong leadership background as IEEE Robotics Chair, with a track record of solving problems through technology and teamwork. Passionate about leveraging technology to solve customer problems and create inspirational experiences.

Education

Bachelor of Engineering - Artificial Intelligence & Machine Learning	Dec 2021 – Aug 2025
P A College of Engineering,	Mangalore

- CGPA: 7.33 / 10 (FCD)
- Key Modules: Artificial Intelligence, Machine Learning, Data Structures, Deep Learning, Cloud Computing, Data Science, Algorithms, Operating Systems

Cambridge International A Levels – Computer Science	2019 – 2021
Sadhbhavana World School	Calicut
Cambridge International GCSE's – Computer Science	2018 – 2019
Global English School	Calicut

Skills

AI/ML:	Computer Vision, Deep Learning, NLP, Model Deployment, Model Optimization, Data Preprocessing, Feature Engineering.
Programming:	Python, SQL
Frameworks/Libraries:	PyTorch, FastAI, scikit-learn, NumPy, Pandas, Matplotlib, Seaborn.
MLOps & Tools:	Docker, Kubernetes, Git, Jenkins, Jupyter.
Web Tech:	Django, HTML/CSS, JavaScript.

Experience

AI DevOps Engineer - Intern, Rooman Technology – Mangalore   Sep 2024 – Feb 2025

- Automated ML deployment pipelines using Docker, Kubernetes, Jenkins, and Git, improving delivery speed and reliability.
- Implemented CI/CD workflows for AI models, reducing deployment cycle times by 30% in simulated environments.
- Collaborated with team to design scalable infrastructure for ML systems.

Projects

Architectural Style Classifier | *FastAI, PyTorch, Gradio*   adilsiraju/Architecture-Style-Classifier/

- Built and deployed a CNN-based classifier to identify 25 architectural styles with 73% accuracy.
- Trained on 10k+ images from Kaggle across 25 architectural styles, with custom dataset curation and preprocessing.
- Fine-tuned a pretrained model via Transfer Learning and deployed via Gradio web app (with Gradio API) and GitHub Pages site, enabling real-time inference for 500+ public users.

EcoVest - Sustainable Investment Platform | *Django, Python, Web Development*   adilsiraju/Ecovest

- Developed a full-stack platform for eco-investing with carbon, energy, and water impact metrics.
- Designed user-friendly dashboards for assessing the sustainability of investments.

Netflix Userbase Analysis | *Python, Pandas, Matplotlib, Seaborn*   adilsiraju/Netflix-Userbase-EDA

- Conducted an exploratory data analysis (EDA) on the Netflix userbase dataset to gain insights into user demographics, subscription patterns, and revenue metrics.
- Utilized Python with Pandas for data manipulation and Matplotlib/Seaborn for comprehensive data visualization.
- Analyzed user age and gender distributions, and identified key trends in revenue by country and device preferences.
- Provided valuable business implications for market targeting, revenue optimization, and product development based on the findings.

Certifications

- CS50x - Computer Science Fundamentals | Harvard University (2025)
- Python for Data Science | IBM (2022)
- Problem Solving Using Computational Thinking | University of Michigan (2022).