Nafees Siddiqui

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Education

Siddaganga Institute Of Technology — Tumakuru, Karnataka
BE in Artificial Intelligence and Data Science ***(CGPA: 8.05/10)*** — *June 2021 – June 2025*

Technical Skills

Languages & Frameworks: C++, C, Python
Core Concepts: OOPs, DSA, Operating Systems, DBMS
Web Technologies: HTML, CSS, SASS, Bootstrap, Django, Flask,Streamlit
Machine Learning & AI: Classical ML, Deep Learning, Time Series, NLP, Transformers, RAG, Generative AI
Frameworks & Libraries: TensorFlow, Keras, PyTorch, Scikit-learn, YOLO, OpenCV
Database & Tools: MySQL, Firebase, Jupyter Notebook, VS Code, PyCharm, Git, GitHub

Experience

Machine Learning Engineer — Oct 2025 – Present
Quantiphi Analytics — *Bangalore*

- Built Agentic AI workflows using LangChain, LangGraph, and LangSmith to automate IQVIA's LAAD Data Integrity analysis, reducing investigation time by 50%.
- Designed multi-agent systems to handle anomaly detection, SQL-based root-cause analysis, and automated narrative generation for client-ready insights.
- Developed secure data pipelines across Snowflake and APS2, improving analyst productivity.

Machine Learning Intern — Jun 2025 – Oct 2025
Quantiphi Analytics — *Bangalore*

- Spearheaded data preprocessing pipelines with Python & Pandas, accelerating model training by 30%.
- Optimized and fine-tuned classification models, boosting accuracy to 92% on imbalanced datasets.
- Deployed and integrated ML models into APIs, powering real-time predictions for 5K+ daily requests.
- Collaborated with cross-functional teams to analyze requirements, resulting in 3+ production-ready ML solutions delivered on schedule.

Projects

SecurifyAI | *Python, YOLO, OpenCV, Firebase (Realtime Database, Face Recognition)* **[GitHub]**

- Engineered an AI-powered intrusion detection system leveraging CCTV feeds with a configurable zone-based monitoring interface, supporting multiple surveillance scenarios efficiently
- Integrated real-time face recognition and authentication via Firebase to accurately identify individuals and trigger alerts for unauthorized access
- Executed scalable surveillance logging using Firebase Realtime Database, ensuring continuous monitoring and streamlined incident tracking
- Applied the solution in a simulated environment, efficiently handling 200+ simultaneous video streams with minimal latency.

Image Forgery Detection | *Deep Learning (CNN), Flask, HTML, CSS, JavaScript* **[GitHub]**

- Developed a CNN-based deep learning model to accurately detect image forgery and localize tampered regions
- Built a user-friendly web interface using HTML, CSS, JavaScript, and Flask, enabling users to upload images and view real-time detection results
- Enforced a Flask-based API to serve predictions from a CNN model; API enabled real-time visualization of forgery likelihood that is used by 15+ fraud analysts daily.
- Achieved **94% accuracy** on benchmark dataset (CASIA2), validating robustness and generalization of the model

Accomplishments

- **Google Cloud Professional Machine Learning Engineer** – Demonstrated advanced expertise in architecting, deploying, and optimizing end-to-end ML systems on GCP. **[View Certification]**
- **Google Associate Cloud Engineer (Oct 2025)** – Certified in deploying, managing, and securing scalable cloud solutions using Google Cloud Platform. **[View Certification]**
- Contributed to **Sklearn-genetic-opt** [Pull Request] – Enhanced the library's robustness and usability, strengthening its adoption within the machine learning open-source community.