

Mohammad Ammar Siddiqui

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LinkedIn — GitHub

Summary

Results-driven Data Science and Machine Learning enthusiast with hands-on experience in building predictive models using Python, TensorFlow. Proficient in statistical analysis, data preprocessing, and developing end-to-end machine learning pipelines. Demonstrated ability to work with structured and unstructured data, extract actionable insights, and optimize models for real-world impact. Adept at collaborating across teams, leveraging data visualization tools.

Technical Skills

- **Data Science Libraries:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn
- **Deep Learning Frameworks:** TensorFlow, Pytorch
- **Programming Languages:** Python, C++ (DSA-focused), SQL
- **Data Analysis & Visualization:** Power BI, Microsoft Excel, Python Plotting Libraries
- **Databases:** MySQL
- **Model Deployment:** Streamlit
- **Version Control & Tools:** Git, GitHub, Jupyter Notebook
- **Soft Skills:** Problem-Solving, Communication, Adaptability, Team Collaboration

Projects

Lung and Colon Cancer Detection using CNN and PSO

[GitHub Link](#)

- Built a deep learning model combining Convolutional Neural Networks and Particle Swarm Optimization to classify lung and colon cancer from histopathology images.
- Optimized hyperparameters using PSO to achieve 97% accuracy across five cancer classes.
- Streamlined preprocessing and evaluation pipeline to improve medical image model performance.

Health Discernment System

[GitHub Link](#)

- Developed predictive models for detecting Malaria, Thyroid, Breast Cancer, Diabetes, and Heart Disease.
- Achieved over 97% accuracy using CNNs on healthcare datasets with proper feature engineering.

Fauget – Car Rental Management System

[GitHub Link](#)

- Designed and deployed a scalable full-stack web application for car rental services.
- Implemented email automation via SMTP and crafted responsive UI using Tailwind CSS.
- Managed backend with MongoDB for efficient booking and user record handling.

Certifications

- **Convolutional Neural Networks in TensorFlow** – Coursera
- **Generative Adversarial Networks (GANs)** – Coursera
- **Agile Testing** – Infosys Springboard
- **MySQL in Detail** – Infosys Springboard
- **Bits and Bytes of Computer Networking** – Google

Achievements

- **Smart India Hackathon** (Ranked 83/500) for Department of Justice AI solution.
- **Top Project Showcase:** Project chosen as one of the top innovations at Bennett University and showcased to industry leaders during the Industrialist Expedition for its real-world impact and technical execution.