Armaan Siddiqui

+91-7017086408 armaansiddiqui.pms@gmail.com armaan-siddiqui ARMAANSIDDIQUI

OBJECTIVE

Aspiring data scientist eager to apply machine learning for solving real-world problems. Seeking to enhance skills and contribute to impactful data-driven projects.

EDUCATION

MIT Moradabad (AKTU) **2022 – 2026**
B.Tech in Computer Science – YGPA: 7.22 *India*

P.M.S. Public School (CBSE)
Class X: 79.4% Class XII: 82.8% *India*

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript, Java, C++

Libraries & Tools: pandas, NumPy, Matplotlib, Seaborn, scikit-learn, Flask, Jupyter Notebook, Git

Concepts: Data Science, Machine Learning, Deep Learning, Neural Networks, Exploratory Data Analysis (EDA), Feature Engineering, Model Evaluation, Data Visualization, Statistical Modeling, RESTful APIs

PROJECTS

RADMIC: Radar-based Drone-Bird Classification using Micro-Doppler Signatures **Sep 2024**

- Built a CNN-based deep learning model to distinguish drones from birds using radar spectrograms.
- Processed grayscale and RGB micro-Doppler data via custom Keras generators and dual-stream ingestion.
- Achieved over 94% validation accuracy; saved and optimized model in HDF5 for real-time inference.

HeartDiseasePredictor: Cardiovascular Risk Classifier **Dec 2024**

- Developed an ML-powered web app for heart disease prediction using clinical features and Scikit-learn.
- Applied feature scaling, selection, SMOTE, and trained ANN; achieved 86% accuracy.
- Built a responsive frontend (HTML/CSS/JavaScript) integrated with Flask for real-time predictions.

GraphXpert: Data Trend Analyzer and Visualizer **Jan 2025**

- Created a Flask-based ML application for CSV-based trend prediction and visualization.
- Trained models using Scikit-learn; visualized outputs with Matplotlib and interactive UI.
- Enabled file uploads, dynamic graphs, and downloadable results through a clean web interface.

CropRecommender: ML-based Optimal Crop Advisor **ONGOING**

- Engineering an ensemble-based model to suggest best-fit crops using soil and climatic data.
- Applying PCA for dimensionality reduction, SMOTE for class balancing, and stacking with RF, XGBoost, SVM, etc.
- Achieving over 96% accuracy and saving the final tuned model using Joblib for deployment.

DistrictSelector: Crop Suitability Tool **ONGOING**

- Developing a classification system to identify suitable districts for crops based on regional agro-climatic profiles.
- Enabling evidence-based planning through predictive analytics and region-specific model outputs.

ACHIEVEMENTS

- Qualified GATE 2025 – AIR 4358 in Data Science & AI.
- Solved 250+ coding problems on LeetCode.
- NPTEL Believer (2024) & Motivated Learner (2025)
- Won Zonal-level Turbo AI Challenge at AKTU LMT Fest.
- Represented college at state-level Turbo AI Challenge.
- Student Coordinator & Mentor – MIT Tech Club

CERTIFICATIONS

- Data Science for Engineers (NPTEL)
- Python for Data Science (NPTEL)
- DSA with Python (NPTEL)
- Introduction to IoT & IIoT 4.0 (NPTEL)
- Developing & Enhancing Soft Skills (NPTEL)
- Cyber Security (Cisco)