

Md Zaheeruddin

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PROFILE

Aspiring Artificial Intelligence and Machine Learning engineer with strong foundations in Python programming, data analysis, and predictive modeling. Experienced in building end-to-end machine learning solutions, performing exploratory data analysis, and deploying models using Streamlit for real-time predictions. Passionate about applying data-driven solutions to solve real-world problems and continuously improving algorithmic and coding skills.

EDUCATION

Shetty Institute of Technology, Gulbarga

2024 – 2028

Bachelor of Engineering in **Artificial Intelligence and Machine Learning**

PROJECTS

Algerian Forest Fire Prediction

Live App — GitHub Repo

- Developed a machine learning model to predict forest fire likelihood in Algeria using meteorological and environmental data.
- Tested multiple regression algorithms (Linear, Ridge, Lasso, ElasticNet) and achieved **92% prediction accuracy**.
- Processed and analyzed over **240+ samples** to extract meaningful patterns for model training.
- Designed a Streamlit-based dashboard enabling **50+ users** to interact with the model in real-time.
- Optimized preprocessing and feature selection pipelines, reducing model training time by **30%**.
- Visualized key factors impacting fire risk using Matplotlib and Seaborn for better decision-making.
- Tech Stack: Python, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Streamlit

TECHNICAL SKILLS

- **Programming Languages:** Python
- **Libraries & Frameworks:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, Streamlit
- **Tools & Platforms:** Git, GitHub, PostgreSQL
- **Domains:** Machine Learning, Data Analysis, Data Visualization, Model Deployment

CERTIFICATIONS

- Mathematics – Basics to Advanced for Data Science and GenAI, Udemy (Aug 2025)
- The Git & GitHub Bootcamp, Udemy (Aug 2025)
- The Complete SQL Bootcamp: Go from Zero to Hero, Udemy (Apr 2025)

ACHIEVEMENTS

- Solved **100+ Data Structures and Algorithms problems** on LeetCode, enhancing algorithmic thinking and coding efficiency.
- Applied ML and data science knowledge to build impactful real-world projects, including predictive models for environmental risk.
- Completed multiple online certifications in Mathematics, Git, GitHub, and SQL to strengthen AI/ML foundations.