

# Atiqur Rahman

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## Summary

Data enthusiast with expertise in Machine Learning, Data Analytics, and Cloud Technologies. Skilled in developing scalable solutions using Python, TensorFlow, and AWS. Proven ability to deliver actionable insights through data preprocessing, EDA, and model deployment. Passionate about leveraging AI to drive innovative solutions.

## Skills

- **Programming Languages:** Python, SQL
- **Programming Framework:** Scikit-learn, TensorFlow, Pandas, NumPy, Matplotlib, Seaborn
- **Tools & Technologies:** Machine Learning, Deep Learning, Docker, Git, AWS, Power BI, Linux
- **Data Analysis:** Data Preprocessing, Feature Engineering, EDA, Data Visualization
- **Other Skills:** Statistics, DSA (Data Structures & Algorithms), Model Deployment

## Experience

**Data Analyst Intern** | Aarupadai Veedu Medical College and Hospital March 2024 - May 2024

- Enhanced data integrity by implementing data cleaning, normalization, and imputation methods, resulting in a 20% improvement in data quality.
- Utilized Python libraries such as Pandas, NumPy, and Matplotlib for effective data manipulation and visualization, leading to actionable insights.
- Conducted exploratory data analysis (EDA) on large medical datasets to uncover trends, patterns, and anomalies, contributing to data-driven decision-making.

## Projects

### Face Recognition System:

- Developed a Python-based system using OpenCV, implemented LBPH (Local Binary Pattern Histogram) algorithm for real-time face capturing, training and recognition.
- Implemented features like access control mechanism and recognition confidence levels.

### Diabetes Prediction:

- Built a machine learning model (Random Forest) with 96% accuracy, optimized through hyperparameter tuning and feature selection to predict diabetes onset based on health indicators.
- Performed data preprocessing, feature engineering, and model evaluation for optimized performance.

### Agriculture Assistant:

- Designed a multilingual virtual assistant for farmers using Flask, OpenAI, and Hugging Face, providing voice and text-based interactions.
- Integrated real-time query resolution and audio transcription features to enhance usability.

## Education and Training

**Bachelor of Engineering: Computer Science and Engineering** Expected in May 2025  
Aarupadai Veedu Institute of Technology, Paiyanoor **CGPA: 9.2**

**Class 12<sup>th</sup>** March 2019  
Adarsh High School, Aurangabad **Percentage: 70%**

**Class 10<sup>th</sup>** May 2016  
Lord Buddha Public School, Aurangabad **CGPA: 10**

## Certifications & Achievements

- Full Stack Data Science Pro (PW Skills)
- Cloud Computing (NPTEL) - Elite + Sliver (75%)
- Amazon ML Challenge Hackathon – Top 100
- IndiaAI Research Fellowship Awardee
- National Level Srinivasa Ramanujan Mathematical Competitions 2022-23 (SRMC 2022-23) (National level)