

# Mohammad Shahzeb Ali Talha

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## SUMMARY

Results-driven B.Tech graduate with a robust foundation in Machine Learning, AI, and Data Science. Proficient in Python and R, with practical experience in statistical modeling, data analysis, and algorithm optimization. Passionate about leveraging data to solve complex business problems. Seeking a challenging Data Scientist or Machine Learning role to apply technical expertise and contribute to data-driven decision-making.

## TECHNICAL SKILLS

**Languages:** Python, R, SQL, C++

**AI & Machine Learning:** TensorFlow, Keras, Scikit-Learn, PyTorch, OpenCV, XGBoost, MediaPipe

**Data Handling & Viz:** Pandas, EDA, Statistical Modeling, NumPy, Matplotlib, Seaborn, Plotly, Power BI

**Deployment & MLOps:** FastAPI, Streamlit, Git, GitHub, Jupyter

**Cloud & Databases:** AWS, PostgreSQL, MySQL, SQLite

## EXPERIENCE

**Cricstack** | *Data Science Intern*

Oct 2025 – Jan 2026

- Engineered advanced performance metrics for cricket players by processing ball-by-ball data from PostgreSQL databases using complex SQL queries to feed into python analysis pipeline, enabling the team to identify key match-winning factors.
- Developed a predictive model to forecast match outcomes and player form with high accuracy, utilizing historical match data and statistical regression techniques in R.
- Visualized complex game statistics through interactive dashboards in Matplotlib and OpenCV, providing real-time insights on run rates and bowler efficiency to support strategic decision-making.
- Leveraged MediaPipe frameworks to build an AI-driven biomechanics tool that analyzed cricket techniques, identifying deviations in posture to improve performance and reduce the analysis time by 40% for coaching staff compared to manual video review.

## PROJECTS

**AI-Integrated Brain Tumor Detection** | [Source Code](#)

- Architected a deep learning Convolutional Neural Network (CNN) using TensorFlow to classify complex MRI scans into four distinct categories (Glioma, Meningioma, Pituitary, No Tumor).
- Mitigated dataset class imbalance and overfitting by engineering an image preprocessing pipeline that utilized data augmentation techniques, including random rotations, zooming, and horizontal flipping.
- Attained a validation accuracy of 95%, successfully demonstrating the model's capability to serve as a rapid, automated diagnostic aid for early tumor detection.
- Tech Stack:** Python, TensorFlow, Keras, Pandas, Git

**Crop Recommendation System** | [Source Code](#)

- Developed a precision agriculture model to analyze critical soil and climatic features (Nitrogen, Phosphorous, Potassium, pH, Rainfall) and predict the optimal crop for maximum yield.
- Benchmarked multiple classifiers including SVM, Decision Trees, and Naive Bayes, ultimately selecting Random Forest for its superior ability to handle non-linear environmental data.
- Achieved a testing accuracy of 99%, delivering a highly reliable tool that empowers farmers to make data-driven decisions for sustainable and efficient farming.
- Tech Stack:** Python, Scikit-Learn, Pandas, NumPy, Git

## EDUCATION

**Jamia Hamdard University**

New Delhi, India

*Bachelor of Technology in Computer Science & Engineering (AI)*

July 2021 – June 2025

- Cumulative GPA: **8.71/10.0**
- Relevant Coursework:** Data Structures & Algorithms, Machine Learning, Deep Learning, Artificial Intelligence, Probability & Statistics, Database Management Systems.

## CERTIFICATIONS

- Data Science Job Simulation** — Forage
- Cloud Computing Fundamentals** — IBM
- Generative AI** — Google Cloud Skills Boost
- Introduction to Machine Learning on AWS** — Coursera