

# MOHAMMED SAQLAIN

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Portfolio: <http://sq1754.tech/>

## Summary

Motivated Computer Science Engineering undergraduate with practical experience in **data analysis**, **data science**, and **machine learning**. Skilled in designing and implementing efficient, scalable solutions, and improving processes to achieve tangible outcomes. Experienced in collaborating within teams and applying modern technologies to solve technical challenges. Aspiring to contribute to impactful, forward-thinking projects in the technology domain.

## Technical Skills

**Languages and Databases:** Python (Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch), Java, MySQL, HTML, CSS, JavaScript  
**Visualization Tools:** Matplotlib, Seaborn, Apache Spark, Hadoop  
**Other Skills:** Business Analysis, Data Analysis, Full stack Development

## Experience & Projects

### Government Engineering College, Ajmer

June 2024 - Present

#### Drone Forensic Research Intern

Rajasthan, India

- Analyzed **200+ .DAT files** using tools like **DATCon** and **CsvView**, converting raw data into actionable **CSV, log, and KML datasets**, reducing analysis time by **35%**.
- Preprocessed datasets and conducted **feature selection**, leading to a **20% increase** in machine learning model accuracy.
- Automated **feature selection workflows**, boosting model training efficiency by **40%**.
- Conducted literature reviews of **state-of-the-art methodologies**, improving **optimization strategies** by **25%**.
- Designed an **automated data preparation pipeline**, reducing manual efforts by **50%** and enhancing workflow reliability.

### Smart India Hackathon

September 2024 - December 2024

#### Face liveness Detection Project

- Co-developed a **real-time face liveness detection system** using a **CNN-based MobileNetV2 model**, achieving **95% accuracy**.
- Optimized **model size** to under **5MB** and reduced **inference time** to **500ms** for seamless real-time detection.
- Designed and implemented advanced **anti-spoofing mechanisms**, strengthening security against attacks via **photos, videos, and 3D models**.
- Built an **interactive user interface** featuring:
  - Eye Calibration:** Dynamic **eye-tracking**, increasing detection accuracy by **15%**.
  - Voice Detection:** Real-time **speech authentication**, enhancing user experience.
- Fine-tuned the model for a **20% improvement** in detection efficiency compared to benchmarks.

### Smart India Hackathon

September 2024 – October 2024

#### Deep fake Video detection Project

- Developed a **deepfake detection pipeline**, achieving **92% accuracy** in identifying fake videos.
- Optimized **preprocessing pipelines** to handle **large datasets** efficiently, reducing computation time by **15%**.
- Utilized **Haarcascades** and **Facenet-PyTorch** for scalable and reliable **face detection** and **feature extraction**.
- Visualized results with **Matplotlib** and **Seaborn**, improving stakeholder understanding of model insights.

### Alumni Association of ECA

January 2024 - March 2024

#### Alumni Website Project

- Led the creation of a **full-stack alumni website** using the **Ionic framework**, enhancing alumni **communication** and **engagement**.
- Implemented **interactive features** and optimized **performance**, reducing page load times by **25%**.
- Improved **user satisfaction** by **30%** through a **responsive, user-friendly interface**.

## Awards & Recognition

- Finalist, Smart India Hackathon 2024** – Developed a face liveness detection system with **95% accuracy**.
- Top Performer, Deepfake Detection Challenge** – Achieved 92% precision in detecting fake videos.
- Academic Excellence Award** – Scored 91.2% in CBSE 12th Standard, ranking among the top performers in the batch.

## Education

### Government Engineering College, Ajmer

November 2022 – July 2026

Bachelor of Technologies in Computer Science Engineering

Ajmer, Rajasthan

Current CGPA: 9.15

### Ajit Vidhya Mandir School, Sirohi

March 2021 – July 2022

Central Board of Secondary Education (12<sup>th</sup> Standard)

Sirohi, Rajasthan

Percentage: 91.2%

