

# Mohammed Taher

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## EDUCATION

### The Oxford College of Engineering

Bachelor of Engineering in Computer Science and Engineering (CGPA: 9.0/10)

Bangalore, India

Nov 2022 – Present

### Dayananda Sagar PU College

Secondary School (Percentage: 85%)

Bangalore, India

Apr 2020 – May 2022

## RELEVANT EXPERIENCE

### Medical Report & Prescription Analyzer Web App | Django, Tesseract OCR, LangChain, Tailwind CSS, REST API Jan

- Engineered a web application to analyze structured medical reports and handwritten prescriptions for **diagnosis extraction** and **drug interaction detection**.
- Integrated **OCR with Tesseract** to extract text from images, achieving 92% extraction accuracy.
- Implemented LangChain agents (*Cardiologist*, *Psychologist*) for intelligent diagnosis recommendations.
- Designed and deployed a responsive frontend using Tailwind CSS, improving user engagement by 25%.

### Deepfake Audio Detection System | Python, Librosa, Scikit-learn, Streamlit, Gradio, Random Forest Feb 2024 – Apr 2024

- Developed a machine learning pipeline to detect synthetic voice recordings using the **ASVspoof 2019 dataset**.
- Applied **predictive analytics** by extracting MFCC, chroma, and spectral contrast features with Librosa.
- Trained and evaluated models (**Random Forest**, **KNN**, **CART**, **Naive Bayes**) achieving **95% ROC-AUC**.
- Deployed an interactive demo with Streamlit and Gradio, reducing user testing time by 40%.

### Student Portal for Academic Management (Ongoing) | Django, PostgreSQL, JavaScript Apr 2024 – Present

- Architecting a full-stack platform for **academic tracking**, **course management**, and faculty-student collaboration.
- Implemented secure authentication, version control with Git, and performance metrics tracking.

## TECHNICAL SKILLS

**Programming Languages:** Python, Java (OOP, Exception Handling), C, JavaScript, HTML, CSS, SQL

**Web Development:** Django, React.js, Bootstrap, PostgreSQL, Tailwind CSS, REST APIs, Spring AI

**Machine Learning:** Scikit-learn, Librosa, Supervised ML, Statistical Modeling, Regression, Data Preprocessing, Image Classification, Predictive Analytics, Performance Metrics, Model Deployment

**Tools & Platforms:** Git (Version Control), VS Code, Microsoft Office, Google Cloud Platform, Streamlit, Gradio, OpenCV, pandas, numpy

## RELEVANT COURSEWORK

Machine Learning, Predictive Analytics, Statistical Modeling, Data Structures, Database Management Systems, Computer Vision, Cloud Computing.

## CERTIFICATIONS

IBM Data Science Professional Certificate – IBM (Coursera, 2024)

Generative AI: Introduction and Applications – IBM (Coursera, 2024)

Introduction to Generative AI – Google (Coursera, 2024)

## EXTRA-CURRICULAR ACTIVITIES

Team Lead – Stage Team (2022–2024): Coordinated multiple college events with cross-functional teams.

Winner – Technical Competitions (2022–2024): Secured top positions in coding contests and technical quizzes.