

Yasser Ahmed Mohammed

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Education

BMS College of Engineering Karnataka, Bengaluru

Mar. 2024 – Present

Bachelor of Engineering in Computer Science (Data Science) CGPA: 8.4 Bengaluru, Karnataka

Technical Skills

Languages: Python, Java, C, SQL, JavaScript, HTML/CSS, R

Frameworks / Libraries: React, Node.js, Express, Flask, Streamlit, scikit-learn

Tools / Platforms: Git, GitHub, Firebase, Android Studio, MySQL Workbench, Power BI, Tableau

Projects

ClassLogger – Face Recognition Based Attendance System | Kotlin, Python, Android Studio (2025) [GitHub]

- Developed a mobile-first attendance management system that prevents proxy attendance by combining **deep-learning-based facial recognition with WiFi SSID/BSSID verification**.
- Implemented a Python backend using **FaceNet (Inception-ResNet-V1)** for 512-dimensional face embeddings, **MTCNN** for face detection, and **KNN** with cosine similarity for identity classification.
- Built an Android application in Kotlin with Firebase Authentication and Firestore, enabling real-time attendance tracking, teacher oversight, and secure session management.

Credit Card Default Prediction | Python, scikit-learn (2026) [GitHub]

- Built a machine learning model to predict credit card payment defaults using the UCI Credit Card dataset (30,000 records), **focusing on recall of defaulters rather than raw accuracy**.
- Tuned a Random Forest classifier using class-weight balancing and probability threshold optimization, achieving **~61% recall on default cases** to support practical credit-risk decision-making.

Aadhaar N.E.X.U.S | Python (2026) [GitHub] [Live Demo]

- Designed and deployed an interactive **Streamlit dashboard** to analyze digital equity and Aadhaar service readiness **across 36 States/UTs and 645+ districts**.
- Engineered composite metrics including **Digital Equity Index (DEI)**, Access Health, Update Load, and Stability scores, enabling state-to-district drill-down analysis.

Telentarium | MERN Stack (React, Node.js, Express, MongoDB) (2024) [GitHub]

- Built a full-stack web application using React for the frontend and Node.js + Express for backend APIs, with MongoDB for data persistence.

Leadership / Achievements

- Secretary, DSsync Data Science Club — organized technical events on Data Science, ML, Cybersecurity.
- Placed 2nd in Langflow Hackathon, Department of Computer Science (Data Science).
- Participant, UIDAI Data Hackathon 2025.