

MOHAMMED ALI AL SAKKAF

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EDUCATION

BMS Institute of Technology and Management

Bachelor of Engineering in Computer Science; CGPA: 8.92/10.0

Bengaluru, India

Dec. 2021 – Jun. 2025

EXPERIENCE

Software Development Intern

Aug. 2024 – Feb. 2025

IBM

Bengaluru, Karnataka

- Worked on *Mobile Device Management (MDM)* and *Mobile Application Management (MAM)* to support enterprise mobility.
- Deep understanding and knowledge of Apple Device Management framework and tools like Apple configurator and ABM.
- Designed and Developed *MDM system* for Apple watchOS enrollment and management using *Java*, *Spring Boot*.
- Implemented *TLS/SSL security protocols* and security requirements for Apple Devices with *Bouncy Castle*.

Freelance Software Developer

Oct. 2023 – Aug. 2024

Self-employed

Remote

- Developed and deployed machine learning models and data workflows leveraging *Flask*, *Django*, and *FastAPI*.
- Automated tasks for customers using *Python scripting* and built custom pipelines, extensions, and automations.
- Developed and Executed projects in data science, NLP, deep learning, and web apps across multiple industry domains.

Data Science Intern

Oct. 2022 – Feb. 2023

Technocolabs Softwares

Remote

- Built ML models for *credit risk analysis* and *loan default prediction* and Conducted *Exploratory Data Analysis (EDA)*.
- Engineered features for financial datasets using *Python*, *Pandas*, *Scikit-learn* for optimal and improved regression.
- Deployed models into a dashboard using *Flask*, *Heroku* to generate investor risk insights for enforced decision making.

PROJECTS

Cyber Physical System for Indian Sign Language Translation | *Deep Learning, Embedded Systems, Signal Processing*

- Developed an innovative real-time gesture recognition system for Indian Sign Language translation using multi-sensor embedded approach with Surface Electromyography (sEMG) and Inertial Measurement Unit (IMU) sensors.
- Built complete end-to-end solution from hardware data acquisition to deep learning classification, creating accessible assistive technology for the underserved Indian deaf community.

Censorship Management System | *FastAPI, NextJS, Sentiment Analysis, Unstructured, Crawler*

Frontend - Backend

- Governance Insight is an intelligent news aggregation and analysis platform designed for real-time monitoring of news articles with AI-powered sentiment analysis and ministry-wise classification. The platform automatically crawls multiple news sources, analyzes content for sentiment, classifies articles by government ministries, and provides comprehensive analytics dashboards.

DNA Profiling Management System | *C, Flask, SQLite, Hashing Algorithms, Data Structures*

GitHub

- Engineered a forensic DNA profiling system using STR analysis, starting with a C-based CRUD application and later transitioning to a Flask web app.
- Awarded **1st Prize** in a college PBL competition for effective implementation.

Volunteer Web Initiatives | *HTML, Bootstrap, Javascript, Flask, Heroku*

IEEE BMSIT & E-CELL BMSIT

- Designed and maintained multiple college websites as part of volunteering initiatives to support technical events and student engagement: CodeRed Hackathon 24, CodeRed Hackathon 25, Anveshana 24, IEEE BMSIT STB, and Capture The Signal 2024.

TECHNICAL SKILLS

Languages & web tech: Java, Python, C/C++, JavaScript, HTML/CSS, Bootstrap, SQL, NextJS, React Native

Frameworks & DBMS: Flask, Django, FastAPI, React, Spring Boot, SQLite, PostgreSQL, MongoDB, Firebase

Developer Tools: Git, Docker, VS Code, IntelliJ, Eclipse, Microsoft Azure, GitHub Actions, Jenkins, Kubernetes, Terraform.

Machine Learning & AI: Tensorflow, Pandas, Langchain, LlamaIndex, OpenAI API, Vector Databases, GPUs

Soft Skills: Communication, Teamwork, Problem-Solving, Leadership, Time Management, Adaptability, Technical Writing

EXTRA-CURRICULARS

Webmaster & Vice Chair, IEEE BMSIT (Jan. 2023 – Jan. 2025): Leader of web development for membership and competitions, organized events for 200+ participants, and fostered leadership initiatives.

Head of Tech, Entrepreneurship Development Cell (May 2024 – Present): Led a team in organizing tech events.

Smart India Hackathon 2024 Finalist (Dec. 2024): Project selected for interaction with India's Prime Minister.

First Place, GirlGeekHack'23 (Dec. 2023): Won NITK Surathkal's 48-hour hackathon

Meta Back-End Developer Certificate (Dec. 2023): Credentialed by Meta via Coursera. Verify

CS50x: Introduction to Computer Science (2021): Completed Harvard's renowned CS fundamentals course. Verify