

# MOHAMMED ALI AL SAKKAF

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## EDUCATION

Year	Degree/Certificate	Institute	CGPA/%
2021 - 2025	B.E - Computer Science and Engineering	BMS Institute of Technology and Management - Bengaluru	8.85/10.0
2017 - 2020	Secondary School Certification	Seiyun Model Secondary School	98.0%

## WORK & POSITIONS

### Freelancer Developer

October 2023 – Present

*Upwork*

- Developed and deployed **machine learning models** and **data science workflows**, leveraging **Flask** and **Django** for web development.
- Assisted in **academic research** as a Research Assistant, implementing research papers into **software solutions**.
- Completed projects in **Python**, showcasing expertise in **Data Science**, **NLP**, **Deep Learning**, **TensorFlow**, and web development.

### Data Science Intern

October 2022 – February 2023

*Technocolabs Softwares*

- Applying **Credit Risk Analysis** to P2P Lending system.
- summarize the characteristics of variables that can affect the loan status.
- Applied **EDA** and **Feature Engineering** techniques for insights.
- Created a **Pipeline** for production and deployed models using **Flask**.

## TECHNICAL SKILLS

**Programming Languages:** Python, C, Java, JavaScript

**Web Development:** HTML, CSS, JavaScript, React Native, Bootstrap, Flask, Django

**Data Science & Machine Learning:** Pandas, NumPy, Scikit-learn, TensorFlow, OpenAI API

**Databases:** PostgreSQL, MongoDB, MySQL

**Tools & Platforms:** GitHub, Heroku, Twilio API, ROS, OpenCV, Postman, Databricks, VsCode

**Other Skills:** Competitive Programming, Data Structures & Algorithms, API Integration, Document Management, Robotics

## ACHIEVEMENTS

- Dec 2023 48-Hour National Level **NITK Surathkal Hackathon - 1st Prize**.
- Nov 2023 36-Hour National Level **Reva Hackathon - Domain Prize**.
- Jul 2023 24-Hour National Level Cyber Security Hackathon.

## PROJECTS

### DNA Profiling Service

GitHub

- Developed a **DNA profiling system** using **STR analysis** for forensic identification, leveraging dynamic data structures for optimized performance.
- Implemented functionalities for **DNA database management**, enabling creation, updating, and searching for matches in criminal investigations.
- Designed a user-friendly interface for **simple STR analysis**, facilitating fast and accurate DNA sequence comparison.
- Technologies Used: **C**, **Hash Tables**, **Linked Lists**.

### Cyber-Buddy: Vulnerabilities Checker & Awareness Platform

GitHub

- Engineered the backend of an interactive application using **Flask**, integrating it with a **React Native** frontend for a seamless user experience.

- Implemented a **vulnerabilities checker**, **malicious link checker**, and **image steganography** features, enhancing the platform's utility in cybersecurity education.
- Deployed the application on **Heroku**, ensuring reliable access and performance for users.
- Extended the API with an **OpenAI chatbot** functionality, providing interactive learning experiences for students in cybersecurity.
- Technologies Used: **React Native, Flask, MongoDB, API, Heroku.**

### **Pinnacle Performs: AI-enabled Document Management System**

**GitHub**

- Developed a **Django web app** for document storage, creation, and editing, with support for PDF editing and OCR technology.
- Integrated **AI autocompletion** for dynamic document creation and implemented full template generation using AI.
- Implemented **E-Sign fields** addition and multiple assignment features for efficient document signing workflows.
- Designed a **document dashboard** for monitoring document status and a receiver web page for email verification and signing.
- Technologies Used: **Django, PDF editing, AI generation, Vector database, OCR.**

### **Cold Calling Agent**

**GitHub**

- Developed a **Flask-based application** to automate and personalize cold calling tasks using **Twilio's API** and **OpenAI's language models**.
- Deployed the application on **Heroku** for ease of access and reliability.
- Enabled **automated calling** and **AI-driven interactions** for dynamic conversation flow, enhancing outreach efficiency and quality.
- Implemented **customizable scripts** and **real-time analytics** to tailor conversations and track performance for continuous improvement.
- Designed a **user-friendly interface** for simple navigation and effortless usage.
- Technologies Used: **Flask, Twilio API, OpenAI API, Heroku.**

### **Analysing Credit Risk on European P2P Lending Platform (Bondora)**

**GitHub**

- Conducted **Exploratory Data Analysis (EDA)** to understand data characteristics and relationships affecting loan status on a **P2P lending platform**.
- Applied **feature engineering** and **selection techniques** such as Mutual Information and PCA to prepare data for machine learning models.
- Developed **classification and regression models** to predict loan default status and other credit risk factors.
- Deployed a web application using **Flask** to predict and display credit risk parameters, facilitating investor decision-making.

### **TensorFlow C++ Installation Tutorial**

**GitHub**

- Showcased the use of **TensorFlow with C++** for machine learning and deep learning applications, including installation guides and tutorials for different operating systems.
- Developed a **linear regression model** and provided examples of TensorFlow inference using frozen models in C++.
- Created detailed tutorials for setting up TensorFlow C++ environments on **macOS** and **Windows**, ensuring accessibility for a wide range of users.
- Contributed to the open-source community by making the project available under the **MIT License** and welcoming contributions for improvement.

### **Web Scraping Site Profiler**

**GitHub**

- Developed a **Flask-based application** for analyzing and profiling specific characteristics of websites through web scraping.

- Implemented **web scraping** functionality to extract information from targeted websites, using Python for core logic.
- Designed a user-friendly web interface with **HTML templates** for interactive user experiences and easy navigation.
- Prepared the application for deployment on platforms like **Heroku**, with a structured approach for managing dependencies and running the application.
- Technologies Used: **Flask, Cloudflare, HTML, Heroku.**

## VOLUNTEERING

### Vice Chair, IEEE Computer Society Chapter

January 2023 – Present

*BMSIT IEEE Student Branch*

- Led the organization of tech events, engaging over **200+ participants**, enhancing community learning and interaction.
- Spearheaded competitions to enhance **student engagement** and **skill development**, fostering a practical learning environment.
- Elevated from **Web-master** to **Vice Chair** within a year, reflecting leadership recognition and operational success.
- Drove **membership growth** and **active participation**, significantly expanding the chapter's reach and impact.

### CodeRed Hackathon Volunteer

January 2024

*E-CELL, BMSIT*

- Designed and developed the **hackathon website**, incorporating real-time updates and evaluation criteria for enhanced user experience.
- Played a key role in the **Hospitality committee**, ensuring a welcoming and organized event atmosphere for all attendees.
- Facilitated the hackathon, promoting **student engagement** and **skill application** through effective competition coordination.

### SAKSHAM Program Volunteer

October 2022 - December 2023

*Rotaract Club of BMS Yelahanka*

- Collaborated in weekly planning meetings to design educational activities for local school students, focusing on **computer literacy** and **Microsoft Office skills**.
- Taught **5th and 7th grade** students basic computer operations, document creation in **Word**, and presentations in **PowerPoint**.
- Engaged students in games to enhance their **teamwork** and **creativity skills**, contributing to their overall development.

### Coordinator, Foreign Language Self-Learning Club

2020

*Seiyun Model Secondary School*

- Initiated and led a club with over **20 students**, facilitating self-learning of **French, Japanese, Turkish, and Spanish**.
- Collaborated with the **Aliania Group** to provide a structured study plan, enabling students to learn languages from scratch.
- Acted as a liaison between the school and the Aliania Group, ensuring the club's smooth operation and access to necessary resources.

### Coordinator, Hands on Robotics Open Course

May 2023

*BMS Institute of Technology and Management*

- Prepared and provided materials for installing **ROS (Robot Operating System)** and introduced participants to the ROS structure, including workspaces and packages.
- Introduced **OpenCV** integration with ROS using Python, with all materials available at GitHub.
- Assisted students with technical issues, provided guidance on code execution, and helped them successfully implement their ROS packages.

## MOOCs

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- **Introductory C Specialization** - Completed online non-credit specialization in September 2022. Certificate
- **Excel/VBA for Creative Problem Solving** - Completed a three-part series in November 2020. Certificate
- **Google IT Support Professional Certificate** - Completed online non-credit professional certificate in April 2022. Certificate
- **IBM Data Analyst Professional Certificate** - Completed online non-credit professional certificate in June 2022. Certificate
- **IBM Data Science Professional Certificate** - Completed online non-credit professional certificate in May 2022. Certificate
- **Introduction to Data Science Specialization** - Completed online non-credit specialization in August 2022. Certificate
- **Python for Everybody Specialization** - Completed online non-credit specialization in January 2022. Certificate