

# AHMED MOHAMED AHMED ALI

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## PROFESSIONAL SUMMARY

Motivated Computer Science student with a passion for Artificial Intelligence and a strong foundation in programming languages such as Java, Python, and C++. Proven ability to design and implement innovative solutions, demonstrating strong collaboration and leadership potential. Eager to contribute technical skills and enthusiasm for AI development to a dynamic team environment.

## EDUCATION

**Pharos University in Alexandria (PUA)** Alexandria, Egypt  
Bachelor of Computer Science Expected Graduation: 2026  
*Relevant Coursework:* Logic Circuit Design, Software Design Methodologies, Data Analysis.

## TECHNICAL SKILLS

- Languages:** Java, Python, C++, JavaScript, HTML5, CSS3, SQL (MySQL), NoSQL.
- AI & Machine Learning:** Neural Networks, NLP, Computer Vision, Transformers, Prompt Engineering.
- Data Science:** Pandas, NumPy, Matplotlib, Seaborn, Power BI.
- Development:** OOP, Agile, MVC, Microservices, Node.js, React, Flutter, Git, GitHub.
- OS:** Windows, Linux (Ubuntu), macOS.

## PROJECTS

**AI Attendance System (YOLO)** Jan 2025 – Present  
*Automated Computer Vision Application*

- Developed a real-time attendance system utilizing the YOLO object detection algorithm for precise face recognition.
- Integrated computer vision libraries to optimize processing speed and detection accuracy for classroom environments.

**AI Mental Health Companion (Prototype)** Aug 2024 – Dec 2024  
*Multimodal NLP System*

- Designed a multimodal system for the detection of stress, anxiety, and depression using sentiment analysis.
- Implemented data preprocessing pipelines to handle diverse input datasets effectively.

**X-ray Analysis with VR** Feb 2024 – June 2024  
*Medical Imaging & Virtual Reality*

- Combined Computer Vision with VR technology to create interactive medical image visualizations.
- Enhanced diagnostic capabilities by allowing 3D exploration of X-ray data.

**AI Calendar Assistant** Sept 2023 – Jan 2024  
*Intelligent Scheduling App*

- Built an intelligent scheduling application featuring a chatbot and automated conflict detection.
- Focused on delivering seamless user experiences through UI/UX refinements.

**Music Genre Classification** Feb 2023 – June 2023  
*Machine Learning Model*

- Engineered a classification model using Naive Bayes, Decision Trees, and XGBoost algorithms.
- Applied supervised learning techniques to analyze audio features and predict genres.

**Java Banking Application** Oct 2022 – Jan 2023  
*Financial Software Solution*

- Implemented an account management system with deposits, withdrawals, and loans.
- Utilized advanced OOP principles including encapsulation, inheritance, and polymorphism.

## EXPERIENCE & LEADERSHIP

**Collaborative Team Projects** Alexandria, Egypt  
*Project Lead / Contributor* Sept 2022 – Present

- Managed the full project lifecycle including requirements gathering, planning, and task distribution.
- Designed and optimized machine learning models across different domains, fine-tuning hyperparameters for performance.
- Voluntarily guided peers in technical concepts and ensured the team followed structured software design methodologies.

## CERTIFICATIONS

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- Logic Circuit Design
- Power BI Data Visualization
- Flutter Mobile Development
- Backend Development

## LANGUAGES

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**Arabic:** Native (Mother tongue)

**English:** Working Proficiency