Ahmed Mohamed Ahmed Ali

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Profile

Motivated Computer Science student with a passion for Artificial Intelligence and a strong foundation in programming languages such as Java, Python, and C++. Currently pursuing a Bachelor's degree at Pharos University in Alexandria (PUA), with hands-on experience in software development, machine learning algorithms, and web technologies. Proven ability to design and implement innovative solutions, demonstrated through projects like a Java-based banking application and a Python AI for gaming. Eager to contribute technical skills and enthusiasm for AI development to a dynamic team environment.

Professional Experience

- Collaborative Team Projects: Worked on multiple team-based projects during coursework, focusing on Artificial Intelligence, software development, and machine learning. Played a key role in project planning, implementation, and presenting outcomes effectively to stakeholders and professors.
- AI and Machine Learning Development: Developed and optimized machine learning models, gaining practical experience in neural networks, NLP (Natural Language Processing), and computer vision. Demonstrated a strong ability to apply theoretical concepts to real-world problems.
- Software Development Expertise: Designed and implemented software solutions, including a Java-based banking application and a Python AI for gaming. These projects emphasized object-oriented programming (OOP) and the use of design patterns for scalability and modularity.
- Web Development and Front-End Skills: Built web applications using HTML5, CSS3, and JavaScript frameworks (React) as part of team projects. Collaborated on improving UI/UX design and optimizing front-end performance for better user experiences.
- Cross-functional Communication and Problem-Solving: Demonstrated excellent communication and organizational skills by collaborating with diverse team members, troubleshooting project roadblocks, and meeting deadlines.

Education

2022/09 – present

Bachelor
Pharos University in Alexandria (PUA)
Bachelor of Computer SciencePharos University in Alexandria (PUA)Expected Graduation: 2026

Skills

Programming Languages
Java, Python, C++

Database
MySQL, NoSQL

Tools
Git, GitHub, Pandas, NumPy, Matplotlib, Seaborn

Cloud Computing
AWS, Azure, Google Cloud

Web Development
HTML5, CSS3, JavaScript (Node.js)

AI & Machine Learning
Neural Networks, Supervised/Unsupervised Learning Algorithms, NLP, Computer Vision

Software Development
OOP, Agile Methodologies, Design Patterns

Operating Systems
Windows, Linux (Ubuntu), macOS

Languages

Arabic
Mother tongue

English
Working Proficiency

Certificates

- Logic Circuit Design
- Power BI
- introduction to flutter
- Backend Node.js

Interests

Passion for Artificial Intelligence and Software Development
Driven by a deep enthusiasm for Artificial Intelligence, with a particular focus on developing innovative software solutions that solve real-world problems. Highly motivated to work in dynamic team environments that leverage AI and machine learning technologies to create impactful applications.

Dynamic Team Environments in AI
Excited to collaborate with diverse teams to design, develop, and implement cutting-edge AI and machine learning solutions. Passionate about combining creativity and technical expertise to drive innovation and deliver meaningful results in the field of Artificial Intelligence.

Projects

Simple Bank Project

- Developed a Java application for banking operations, including account management (Checking, Savings, Loan), with features for deposits, withdrawals, interest calculation, loan payments, and overdraft management.
- Utilized OOP principles and design patterns for scalability and modularity.

Tic-Tac-Toe Game with AI

- Created a Python-based game with AI using algorithms like Minimax for decision-making.
- Implemented different difficulty levels and a graphical user interface (GUI) with Tkinter for interactive gameplay.

Memory Game on Logic Circuit Design

- Designed and implemented a memory game project exploring concepts from logic circuit design.
- Enhanced understanding of logic gates and circuit components through interactive gameplay.

Music Genre Classification

- Developed a machine learning model using Python to classify music genres based on audio features.
- Utilized algorithms including Naive Bayes, Decision Trees, and XGBoost, along with data preprocessing techniques like normalization and feature selection.

Chatbot Development

- Built an intelligent chatbot capable of handling user queries and providing real-time responses using Natural Language Processing (NLP) techniques.
- Implemented conversational flows and integrated the chatbot with a front-end interface.

X-ray Analysis with VR

- Developed an application combining X-ray image analysis with Virtual Reality (VR) to visualize medical data interactively.

- Utilized computer vision techniques to process X-ray images and created an immersive environment for enhanced medical insights.

Fingerprint Recognition System

- Designed and implemented a fingerprint recognition system using machine learning algorithms for secure authentication.
- Focused on preprocessing, feature extraction, and model optimization to achieve high accuracy in fingerprint matching.

Courses

Logic Circuit Design

Flutter Development

Power BI

Backend (Node.js)