

# Amr Mohammed

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[github.com/AmrMohamed17](https://github.com/AmrMohamed17) | [kaggle.com/amr132](https://www.kaggle.com/amr132)

## SUMMARY

Aspiring Machine Learning Engineer with hands-on experience building real-world projects in recommendation systems, computer vision, and LLM-powered applications. Proficient in TensorFlow, PyTorch, and Scikit-learn, with practical exposure to deploying ML solutions using APIs and full-stack tools like Flask.

## RELEVANT COURSEWORK

- Elevvo | AI Internship** **Jun 2024 - Present**
- Develop machine learning models for tasks like regression, classification, and recommendation using real-world datasets from Kaggle and UCI.
  - Apply deep learning techniques with TensorFlow and Keras, focusing on evaluation metrics, model tuning, and deployment readiness.
- Mathematics for Machine Learning | DeepLearning.AI / Coursera** **Aug 2023 - Feb 2024**
- Applied linear algebra, calculus, and probability concepts to machine learning applications, resulting in enhanced understanding of principal component analysis, vector transformations, and optimization techniques
- CS50's Introduction to Artificial Intelligence with Python | Harvard Course** **Aug 2022 - Mar 2023**
- Studied search algorithms, logic, probability, and machine learning. Created AI projects such as a Tic-Tac-Toe bot using Minimax, a logic puzzle solver, and a PageRank-based search engine.
- CS50: Introduction to Computer Science | Harvard Course** **Aug 2021 - Apr 2022**
- Learned programming fundamentals using C and Python. Built projects including a finance web app using Flask and SQL, and a Breakout game using C and SDL.

## PROJECT

- AI-Powered Resume Builder** **May 2025 - Present**
- Develop a full-stack web app that transforms old resumes and LinkedIn/GitHub data into ATS-compliant CVs using the Gemini LLM API and NLP-based data extraction.
  - Build an editor with real-time content editing and PDF export, leveraging Flask, PyMuPDF, and a modular architecture.
- Local Product Finder (GP) | TeamWork** **Jul 2024 - Jun 2025**
- Created a mobile app that identifies products from images using MobileNet with 99% accuracy. Built a hybrid recommendation system combining content-based filtering (Sentence-BERT) and collaborative filtering (LightFM). The system suggests local alternatives when a non-local product is detected, improving over time based on user choices.
- AlphaLearn Game | TeamWork** **Jul 2024 - May 2025**
- Developed a Unity game where difficulty adapts to player performance using reinforcement learning. Integrated an ONNX model that adjusts speed and obstacles in real-time based on player score.

## EDUCATION

- University of Ein Shams** **Oct 2021 - Aug 2025**  
*BSc., Computer Science*
- **Achievements:** Cumulative Grade: B, GP: A
  - **Coursework:** Introduction to Machine Learning, Data Science, Neural Network
- Tiba International School** **Sep 2017 - Jun 2020**  
*High School Diploma (GPA: 3.95)*
- **Achievements:** SAT: 1270, ACT: 31

## SKILLS

- **Programming Languages:** Python, C++
- **Machine Learning & AI:** TensorFlow, PyTorch, Scikit-learn, ONNX, Reinforcement Learning, Computer Vision, MLOps
- **Web & APIs:** Flask, GitHub API, Gemini API
- **Big Data & Analytics:** PySpark, SQL
- **Tools & Frameworks:** Linux, OOP, Data Structures
- **Core Abilities:** English (Fluent), Problem-Solving