

Talal Ahmed Mahmoud

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EDUCATION

Faculty of Computer and Data Science, Alexandria University

B.Sc. in Computer and Data Science

Alexandria, Egypt

Graduated: June 2025

- **Concentrations:** Intelligence and Modeling/Simulations
- **Related Coursework:** Data Structures & Algorithms, Objects & Design, Computer Organization & Programming, Machine Learning, Artificial Intelligence, Object-Oriented Programming, Statistics & Applications

PROJECT

Mentor.AI

Team Member

Alexandria, Egypt

Oct 2024 – Jun 2025

- Made a comprehensive platform aimed at improving employability for job seekers using AI technologies.
- Built a simulated interview system with a talking AI avatar powered by LLMs, voice-to-text transcription, and real-time feedback.
- Engineered facial and tone emotion analysis modules to assess soft skills.
- Designed and deployed backend APIs to integrate all services for seamless user experience.
- Developed AI interview simulation using Whisper (STT), ElevenLabs (TTS), Wav2Lip (lip sync), and Ollama (LLM). Integrated modules into a FastAPI backend and developed the interview flow with real-time feedback based on facial and vocal emotion recognition.

EXPERIENCE

My-Communication

Artificial intelligence and machine learning trainee

Alexandria, Egypt

Feb 2023 – May 2023

- Covered neural networks, supervised learning, unsupervised learning, and computer vision basics.
- Simulated ventilator behavior for sedated patients' lungs using deep learning models.
- Trained and evaluated predictive models using Python and TensorFlow to minimize pressure prediction error.

Bosch Cairo Services

Data Entry

Alexandria, Egypt

Aug 2024

- Entered and validated structured product and customer data into the beta version of a SaaS platform.
- Collaborated with QA and dev teams to improve data accuracy workflows and catch input edge cases.

My-Communication

Data Analysis Trainee

Alexandria, Egypt

Jul 2024 – Sep 2024

- Hands-on experience in using industry tools for data wrangling, visualization, and reporting.
- Selected and cleaned Forbes' Richest Athletes dataset.
- Built an interactive Power BI dashboard showing earnings distribution, sports-wise comparisons, and geographic analysis.
- Supplemented insights with Python-based exploratory data analysis.

SKILLS

Programming: Python, Java, JavaScript, HTML/CSS, SQL, C++

Tools & Technologies: IntelliJ, Eclipse, VS Code, Git, GitHub, Jupyter Notebooks, AWS, FastAPI, MySQL, PostgreSQL, Docker, Whisper, Ollama, LangChain

Machine Learning & AI: scikit-learn, pandas, NumPy, OpenCV, PyTorch, Hugging Face Transformers

APIs & Deployment: REST APIs, cURL, Google Cloud Run, Postman

Other: Linux (Arch), Windows, Bash scripting