

AHMED GALAL ELZEKY

Microsoft Certified: Azure AI Engineer Associate — AI Engineer — NLP Specialist

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EDUCATION

ESLSCA University / Computer Science B.S.

Sep. 2021 - Sep. 2024, Cairo, Egypt

Human Academy / Japanese Language and Business Manner *Oct. 2024 - Jan. 2025, Japan(Remote)*

EXPERIENCE

AI Engineer, Intelligent Systems I-Sys

Feb. 2025 - Present

- Collaborated the deployment of **Watsonx**-powered self-service robots, kiosk avatars, and omni-channel conversational AI systems that enhance customer engagement across our partner Telecommunication and banking companies.
- Developed custom NLP modules within Watsonx.ai to support multilingual interactions in Arabic's regional dialects (Egyptian and Saudi) with high accuracy—to ensure a seamless customer experience.
- Leveraged **IBM Watsonx** to power event robots that enabling features like automated registration (with ID/QR code scanning and instant photo printing), interactive demonstrations, and real-time feedback collection.

AI Developer Intern, Eviron Adapt

Aug. 2024 - Oct. 2024

- Using **Tensorflow** and **OpenCV** to create **Siamese Networks** that was used in an **image recognition model** to distinguish between identical trash bales and bales viewed from different angles, automating a previously manual task and significantly reducing company costs in storage and payments by thousands of Egyptian pounds.
- **Designed and implemented a validation model** to assess image quality against stakeholder-defined requirements, ensuring compliance and improving precision in image verification processes.

AI Developer Intern, ESLSCA University

Feb. 2024 - Apr. 2024

- Developed a project, earning ESLSCA University **The Times Highest Higher Education Award 2024** in Technological/Digital Innovation at the **Arab Summit of Universities, Dubai**.
- Used **Langchain** Framework and **OpenAI Function Calling** to build a GPT-powered chatbot that guides prospective students, provides real-time updates, and **automates document processing** and verification.
- **Streamlined admissions** by reducing processing times, enhancing communication, and reallocating staff for personalized support, boosting efficiency.
- Integrated **Chroma Vector Database** and **RAG** to provide the chatbot for **contextual awareness**.
- Worked on **Django backend** and seamlessly connected it with the **React frontend** via **RESTful APIs**, ensuring efficient system integration.

Software Developer Intern, IIG-HEC

Jun. 2023 - Dec. 2023

- Website Link: www.iig.land
- Website developed using **ReactJS**, showcasing the company's projects.
- Real-time blog post system using **Firebase Storage** and **Firestore**.

- Deployed the website on **Vercel** serverless hosting.

XR Developer Intern, *GMind*

Jul. 2023 - Oct. 2023

- Used **C#** to implementing player mechanics and complex AI behavior of NPCs and player interactions.
- Gained a clear understanding of **Object-Oriented Programming**
- Refine tasks to help to achieve the vision of the game designer.

OUTSTANDING ACHIEVEMENTS

- Published a **Journal of Elsevier's Procedia** Computer Science. Journal name: **Multi-Hop Arabic LLM Reasoning in Complex QA**. Presented in **ACLing 2024**, the 6th International Conference on AI in Computational Linguistics in Dubai,UAE. [Link to Paper Here](#)
- **Winner at the GenAI Hackathon**, hosted by Stakpak, for presenting the AI-powered Language Learning App shown under the Projects Section. [Link to Post Here](#)
- Worked on project with my university that has been awarded **The Times Highest Higher Education Award 2024** in Technological or Digital Innovation category in the Arab Summit of Universities in Dubai University. [Link to Post Here](#)
- My Startup GPTuBE has been named one of the Top 3 finalists in the **GESAwards 2024 Africa** and will represent Egypt and North Africa in the **Global GESAwards**. [Link to Post Here](#)

PROJECTS

- **Language Learning Application**

A full-stack language learning platform integrating AI to personalize vocabulary building and reading comprehension. Features include:

- **Word Bank system** powered by AI to automatically populate, categorize, and assign 5-level mastery scores based on user progress and study patterns.
- AI-driven **chatbot assistant** for real-time word extraction, grammar support, and personalized learning recommendations.
- Immersive **Reading Mode** with contextual word lookup and real-time comprehension tracking.
- Dynamic **Story Library** that generates custom stories using words from the user's Word Bank, tailored to their vocabulary level.
- **Spaced repetition flashcards**, gamified quizzes, and a daily streak system to reinforce learning and boost engagement.

Technologies used: Django REST Framework, Next.js, React, TypeScript, TailwindCSS, Google Gemini, SQLite

- **GPTube**

Allowed interactive engagement with YouTube videos through a **GPT-powered chatbot** that understood the content of the video. Used **Microsoft Azure** to integrate the GPT model, TTS and STT tools. The tool also enabled the creation of customized experiences based on Video Content:

- Generating Interactive **Mock Tests**.
- Correction and Explanation of User Answers.
- Generating **PowerPoint Presentation**.

Technologies used: Microsoft Azure, React.js, Django, Langchain, Chroma Vector Database, OpenAI Function Calling

GitHub: github.com/Gallillio/GPTube

- **Real-Time Facial Emotion Classification**

Leveraged transfer learning techniques as well as developing my own CNN model from scratch to build a real-time facial emotion classification system.

Technologies used: OpenCV, CNN, MobileNetV2, VGG, ResNet50, Data Augmentation

GitHub: github.com/Gallillio/RealTime_Facial_Emotion_Classification

- **Data Visualizer with Machine Learning Training Using UI**

Data Visualizer platform integrating **Supervised Machine Learning** prediction capabilities within a user-friendly interface. Allowing user to:

- o Data **Exploration, Cleaning, Transforming, Embedding, and Augmenting.**
- o **Machine Learning Algorithms** for training such as **Regression, Classification, Ensemble Methods.**
- o Access to model **Metrics** such as: **Accuracy, Precision, Recall, F-1 score, MSE**

Technologies used: Python, NumPy/Pandas, scikit-learn, Matplotlib

GitHub: github.com/Gallillio/Data_Science-Data_Visualizer_Tool

SKILLS

Programming Languages: Python, JavaScript, TypeScript, C#, HTML, CSS

Tools: Microsoft Azure, Watson Cloud, Google Cloud, Git, Django, Tensorflow, Keras, scikit-learn, OpenCV, ReactJS, NextJS, TailwindCSS, PowerBI, Unity

Soft Skills: Agile Manifesto, Kanban Boards, Data Driven Decision Making, Data Analysis, Sales Skills

CERTIFICATIONS

Microsoft Certified: Azure AI Engineer Associate / [Link To Certification](#) *Issued May. 2025*

COURSES

AI-102T00-A: Designing and Implementing a Microsoft Azure AI Solution / *Microsoft Feb. 2025*

AI-900T00-A: Microsoft Azure AI Fundamentals / *Microsoft Feb. 2025*

AZ-900T00-A: Microsoft Azure Fundamentals / *Microsoft Feb. 2025*

Practitioner Watsonx Assistant / *IBM Feb. 2025*

Watsonx Orchestrate Intermediate / *IBM Feb. 2025*

Linux Administration / *New Horizons Jul. 2023*

Security + / *CompTIA Apr. 2023*

Cloud AWS Practitioner / *Amazon Oct. 2022*

Supervised Machine Learning / *DeepLearning.AI Aug. 2022*

Network + / *CompTIA Aug. 2022*

CompTIA A+ / *CompTIA Aug. 2022*