

# AHMED GALAL ELZEKY

+201110333933 | [ahmedgalal11045@gmail.com](mailto:ahmedgalal11045@gmail.com) | [Gallillio.vercel.app](https://Gallillio.vercel.app) | [github.com/Gallillio](https://github.com/Gallillio) | [linkedin.com/in/ahmed-galal-123a4a196](https://linkedin.com/in/ahmed-galal-123a4a196) | [credly.com/users/ahmed-galal.bbb8ea95](https://credly.com/users/ahmed-galal.bbb8ea95)

## 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](http://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.

- 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

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- Published a **Journal of Elsevier's Procedia Computer Science**. Journal name: **Multi-Hop Arabic LLM Reasoning in Complex QA**. Presented in **ACLing 2024**, the 6<sup>th</sup> 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

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- **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](https://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](https://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](https://github.com/Gallillio/Data_Science-Data_Visualizer_Tool)

## SKILLS

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**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

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

*Issued Apr. 2025*

## COURSES

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**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 Adminstration / 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*