






Youssef Salah Zakria Elbegermy


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SUMMARY

Motivated AI & Data Enthusiast with strong foundations in Python programming, statistics, and machine learning. Skilled in developing predictive models and interpreting time series data trends. Hands-on experience with CNNs, LLMs, and real-time data pipelines. Passionate about applying machine learning techniques to real-world challenges, including telecommunications. Eager to contribute to network performance forecasting and customer behavior analysis while continuously growing my technical and industry knowledge.

WORK EXPERIENCE

- Co-leader, ASI Community**
 - 10 hands-on workshops empowering 50+ undergrads in **CNNs, NLP**, and **AI deployment**
 - Mentored 30+ students on **real-world AI projects**, guiding model deployments and fostering innovation

07/2024 – Present
- Data Analysis Instructor, Upgrade**
 - Led hands-on data analysis sessions for 10 students utilizing **Power BI , Excel and MySql** to derive insights from datasets.
 - Developed and updated curriculum content focused on practical data analysis skills, aligning with industry standards.

05/2024 – 09/2024
Cairo, Egypt
- Data analysis Intern, Bi sloution**
 - Analyzed raw datasets using Power BI and SQL to provide actionable business insights.
 - Designed interactive dashboards for KPI tracking, improving executive decision-making by 20%.
 - Collaborated with cross-functional teams to streamline data workflows and identify reporting needs.

2022 – 07/2023
Cairo, Egypt

PROJECTS

- Medica (Graduation project)**
 - Technology used: **Gemini API, Vectordb Faiss, Langchain, Kokoro-onnx, Hugging face, CNN, Flask, Docker**
 - LLM Chatbot Repistory
 - AI Assistant:** Developed a Rag System chatbot using Gemini API, LangChain, and Faiss, serving 150+ users weekly.
 - Voice Interaction:** Integrated bilingual voice capabilities using kokoro-onnx for real-time interaction.
 - Cancer Detection:** Designed and trained a CNN on 20K augmented CT scans, achieving 93% classification accuracy for kidney-related conditions.

01/2025 – 05/2025
- Fruit & Vegetable Image Classifier**
 - Website
 - Built a custom CNN achieving **80%+ accuracy** classifying **40+** types of fruits and vegetables.
 - Optimized training using ImageNet feature extraction, reducing training time by **40%**.
 - Launched a real-time web app praised for intuitive design and responsiveness by early users.

09/2024 – 12/2024

EDUCATION

- Computer Science, Higher Technological Institute (HTI)**
 - Major: Computer Science | GPA: 3.3
- 2021 – 2025

CERTIFICATIONS

- Microsoft Certified: Azure Data Scientist Associate
- Machine Learning Specialization: DeepLearning, AI, Coursera, Stanford CPD
- Wireless Communication for IOT (Information Technology Institute (ITI))

SKILLS

- Programming:** Python, SQL
- Machine Learning:** Decision Trees, Random Forests, Neural Networks, Deep Learning (CNNs)
- Data Analysis:** Power BI, Excel, MySQL, Statistical Analysis
- Mathematics:** Statistics, Linear Algebra
- Tools:** TensorFlow, PyTorch, Scikit-learn, Flask, Docker
- Data Handling:** Data Cleaning, Preprocessing, Pattern Recognition
- Familiarity:** Time Series Analysis, Telecom Data Concepts (basic)
- Soft Skills:** Analytical Thinking, Team Collaboration, Continuous Learning