George Emil Sadek

☎ 01554288935 ✉ georgeemil030@gmail.com

Pf portfolio in LinkedIn GitHub

Objective

Senior Computer Engineering student with a strong academic background, specializing in AI and Data Science. Proficient in Python, machine learning, and data analytics, with a growing portfolio of practical projects. Currently seeking an AI internship to apply and further develop my skills in real-world applications, particularly in embedded systems and automotive AI.

Education

Level 4, Computer Engineering– Faculty of engineering at shoubra benha– Banha university.
CGPA: 3.4   *Sep 2021 – June 2026*

Training

- **Artificial intelligence at NTI**   *August 2023 - September 2023*
- **Entrepreneurship at itida**   *October 2023*
- **Entrepreneurship at plan international**   *November 2024*
- **Data analysis at NTI**   *July 2024 - September 2024*

Skills

- **Programming Languages:** C, C++, Python, Java, Embedded C, JavaScript
- **Software & Tools:** Git, Linux, Docker, MATLAB, VS Code, Jupyter, Google Colab
- **AI & Data Science:** Data Analysis, Machine Learning, Deep Learning, NLP, Computer Vision
- **AI Libraries & Frameworks:** TensorFlow, PyTorch, Scikit-learn, Keras, OpenCV
- **Embedded Systems:** Microcontroller Interfacing, Communication Protocols (UART, SPI, I2C),Microcontroller Architecture, ESP32, STM32 (basic)
- **Databases:** MS SQL Server, MySQL, SQLite
- **Visualization & BI Tools:** Excel (Advanced), Power BI, Tableau, Matplotlib, Seaborn, Plotly

Projects

1. **Face Mask Detection**
   Built a real-time computer vision system to detect whether individuals are wearing a face mask using a convolutional neural network (CNN) model and OpenCV. Integrated webcam input with TensorFlow inference.
   Tools & Technologies: Python, TensorFlow, Keras, OpenCV, CNNs, Jupyter Notebook

2. **Email Spam Detection**
   Developed a machine learning model to classify emails as spam or non-spam using natural language processing and supervised learning. Preprocessed text data using TF-IDF, trained multiple classifiers, and achieved over 95% accuracy.
   Tools & Technologies: Python, scikit-learn, Pandas, NumPy, Jupyter Notebook, TF-IDF, Logistic Regression, SVM

3. **Capstone Data Analysis Project on supermarket sales**
   Performed a full end-to-end data analysis project including data wrangling, cleaning, exploration, visualization, and insights presentation. Used real-world datasets to create actionable dashboards.
   Tools & Technologies: Python, Pandas, Matplotlib, Seaborn, Power BI, Excel

Student activity

- **AI leader in IEEE team**   *October 2023 – present*
- **Shobra racing team alpha member**   *November 2022 – present*

Courses

- **Machine Learning A-Z: AI, Python**(Udemy)
- **Machine Learning Foundations**(Aws academy)
- **Reinforcement Learning**(Udemy)
- **Introduction to HTML, CSS, & JavaScript** – *IBM*
- **Deep Learning Specialization** – *DeepLearning.AI*
- **Machine Learning** – *Stanford University*

Awards

Second place worldwide Shell Eco-marathon APC   *June 2025*
Achieved second place out of 24 international teams representing Egypt in the prestigious Shell Eco-marathon competition for autonomous energy-efficient vehicle design and deployment

Language

- **Arabic –** Native language
- **English –** Full professional working proficiency