Ali Elneklawy
GitHub, LinkedIn, Portfolio

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Education

- **Faculty of Engineering** — Alexandria University
  Bachelor of Engineering in Communications and Electronics; GPA: 3.3 — *Aug. 2019 – June. 2024*

Relevant Coursework

- Programming (Python)
- Data Structures and Algorithms
- Operating Systems
- Database Management
- Advanced Probability and Statistics
- Machine Learning
- Deep Learning
- Convolutional Neural Networks
- Version Control (Git)

Experience

- **Ministry of Communications and Information Technology** — Hybrid
  AWS Machine Learning Trainee — *May 2024 - Present*
  - **Prompt Engineering**: Completed training on prompt engineering techniques.
  - **AWS Academy Cloud Foundations**: Learned fundamental AWS cloud concepts and services.
  - **AWS Academy Cloud Architecting**: Studied the architecture of cloud solutions using AWS.
  - **AWS Academy Machine Learning Foundations**: Studied foundational concepts in machine learning and practices on AWS.
  - **AWS Academy Machine Learning for Natural Language Processing**: Studied machine learning techniques specific to natural language processing.
  - **MLOps Tools, MLflow, and Hugging Face**: Explored MLOps tools including MLflow for managing the ML lifecycle and Hugging Face for NLP models.

Projects

- **Braille Translator (Graduation Project)**: Participated in the development of a system capable of converting scanned Braille images into English text and audio books. Achieved an accuracy rate of 99%.
- **Real Time Face Mask Detection**: Developed a computer vision project that uses deep learning techniques to detect if a person is wearing a face mask in real time. Achieved 93% accuracy.
- **Real Time Sign Language Classification**: Developed a machine learning model to translate sign language letters into English letters.
- **Chatbot**: Implemented an AI chatbot using Tensorflow with a user-friendly GUI using Gradio. The project was deployed on Hugging face. Achieved 97% accuracy in comprehending user input.
- **Boston House Price Prediction**: A machine learning model that can be used for housing price prediction deployed using streamlit on Hugging face.
- **Spam Filter**: Built a highly effective spam filter using machine learning techniques. Achieved an accuracy 98%.
- **Malware Detection from Memory Dump**: Implemented a deep learning model to detect whether or not a specific device is infected and if it is infected, determine the type of malware. Achieved an accuracy of 99%.
- **Diabetes Predictor**: Built a machine learning model that can be used to predict whether a patient is diabetic or not based on several factors.
- **PDF Text to Speech**: A GUI-driven application that can be used to convert PDF files to audio files with each page converted separately to an audio file.
- **PintOs**: Contributed to the development of PintOs, an open-source instructional operating system kernel developed by Stanford university.

Programming Skills

- **Languages**: Python, Maltalb, C, SQL
- **Developer Tools Technologies and Frameworks**: Pandas, NumPy, Matplotlib, Qt, Scikit-Learn, TensorFlow, Keras, Regex, Git

Personal Skills

* Teamwork, Self-learner, Time Management, Presentations