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**Objective:**

Highly skilled machine learning engineer with hands-on experience through internships and specialized training. Proficient in AWS tools and services, with practical skills in deploying machine learning models, cloud architecting and NLP.

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**Education:**

- **Faculty of electrical engineering, computer science and engineering departments**  
Manoufia university (2021-present)
  - **Faculty of engineering, prep year**  
South Valey University (2020)
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**Internships:**

- **Digital Egypt Pioneers (DEPI)** (JUNE 2024, NOV 2024)  
**AWS machine learning engineer**
    - Gained hands-on experience with AWS tools and services, focusing on cloud foundations, cloud architecting, and machine learning.
    - Developed and deployed machine learning models using AWS SageMaker, handling tasks from data preprocessing to model evaluation.
    - Implemented NLP applications leveraging AWS services, enhancing text data analysis and sentiment extraction capabilities.
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**Courses:**

- **Machine Learning Specialization**  
**Coursera | DeepLearning.AI**
  - Mastered supervised learning techniques and their applications.
  - Explored best practices for machine learning, including cross-validation.
  - Built and evaluated models for classification and regression tasks.
- **Deep Learning Specialization**  
**Coursera | DeepLearning.AI**
  - Gained proficiency in neural networks and deep learning architectures.
  - Implemented convolutional networks for image processing tasks.
  - Developed models for sequence prediction, including LSTMs and RNNs.
- **AWS Cloud Foundations**  
**AWS Academy**
  - Learned fundamental AWS cloud concepts and infrastructure.
  - Explored AWS services and how to leverage them for cloud solutions.
  - Built a strong understanding of security, pricing, and architecture.
- **AWS Cloud Architecting**  
**AWS Academy**
  - Designed and deployed scalable, fault-tolerant applications on AWS.
  - Applied best practices in cloud architecture and service management.

- Gained hands-on experience with AWS infrastructure and automation.

- **AWS Machine Learning Foundations**

**AWS Academy**

- Built foundational knowledge of machine learning principles and AWS tools.
- Developed machine learning models using Amazon SageMaker.
- Understood the deployment and integration of machine learning models in applications.

- **AWS Machine Learning for Natural Language Processing**

**AWS Academy**

- Implemented NLP models using AWS machine learning services.
- Processed and analyzed text data to extract meaningful insights.
- Deployed NLP applications for sentiment analysis and language translation

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**SKILLS:**

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|--------------------------------------|-----------------------------------|
| • Machine Learning Model Development | • Deep learning Model Development |
| • Data Analysis and Preprocessing    | • Feature engineering             |
| • Image Processing                   | • Aws migration                   |

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**Computer skills:**

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|---|---|
| • PYTHON                                    | • Numpy, Pandas, Matplotlib                   |
| • Streamlit                                 | • C++   |
| • AWS Services (EC2, S3, Sagemaker, etc...) | • ML frameworks ( tensorflow, keras, pytorch) |

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**Projects:**

- **Automated EDA:**

**Project Description:** This project leverages Streamlit to create an automated EDA tool. Users can upload data files, such as CSV, and the tool will automatically perform data preprocessing and visualize the results. This streamlines the data analysis process and provides valuable insights.

**Tools:** Python, Streamlit, Numpy, Pandas, Matplotlib.

- **National ID Card Recognition System:**

**Project Description:** This project utilizes OpenCV to enhance the quality of scanned Egyptian national ID cards. OCR is then used to extract text from the cards, enabling efficient and accurate data extraction.

**Tools:** Python, Opencv, OCR. Tensorflow

- **Airbnb Data Analysis:**

**Project Description:** I conducted a comprehensive analysis of Airbnb data, starting with data cleaning and preprocessing. I then explored and visualized the data to uncover valuable insights into pricing trends, location popularity, and user demographics.

**Tools:** Python, Numpy, Pandas, Matplotlib.

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**Familiar with:**

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|--------|-------|--------|
| • Java | • SQL | • CCNA |
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**Language SKILLS:**

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|-------------------|-----------------------|-------------------|
| • Arabic (native) | • English (very good) | • German (basics) |
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