Moaz Alhady Fathy

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Career Objective

Looking to be a part of a progressive company among a team full of a motivational atmosphere, which will help me to contribute and gear up with the company I work for.

Technical Skills

- Programming (Python, PHP, Java).
- Machine learning.
- Data Visualization (Plotly, Dash).
- Image processing & filtering techniques (open-cv)
- Deep Learning (CNN, NLP).
- CI/CD,GIT
- Tools (TensorFlow, Keras).
- Linear algebra, Probability, Statistics.
- Problem Solving and Algorithms.
- Agile Software Development.
- Linux Admin.
- Basic Knowledge of AWS and Azure ML
- SQl, NoSQL, MongoDB.
- Docker, Kubernetes

Work Experience

July 2021 – Present

MLops Engineer at ACT, Building and maintaining the infrastructure for training, evaluating and deploying machine learning models. This includes setting up and configuring cloud environments, creating and managing data pipelines, and automating the machine learning workflow.

Feb. 2022 – Dec. 2022

NLP researcher at NORD A1(REMOTE):

- Developed and tested code for diverse NLP tasks, ensuring project robustness and efficiency.
- Specialized in advanced NLP techniques, including model development and interpretation using libraries such as NLTK, spaCy, TensorFlow, and PyTorch.
- Expanded expertise in innovative NLP methods such as zero-shot classification and interpretable Model-Agnostic Explanations (e.g., LIME, SHAP), enhancing model performance and understanding.

Dec. 2021 – Feb. 2022

Computer Vision at Alpha Eleven(REMOTE):

- Researched and implemented solutions for various computer vision tasks including object detection, tracking, counting, anomaly detection, pose detection, and loitering.
- Developed Flask APIs to deploy computer vision models onto the website, facilitating seamless integration and accessibility.
- Utilized agile methodologies to adapt quickly to evolving project requirements and timelines, ensuring efficient delivery of solutions.

Oct. 2021 – Jan 2022

Computer Vision at Tekomoro, researching, writing, testing code but mainly in trajectory prediction despite the variances in these camera settings.

- Improved trajectory prediction accuracy by optimizing preprocessing techniques and integrating new machine learning models.
- Conducted experiments with real-time data collected from the golf car to validate the performance of the trajectory prediction system.
- Implemented multithreading techniques to parallelize computation, further improving system efficiency and performance.

Education

Apr. 2021 – Jan. 2022

9 Month Professional Diploma Scholarship AI Pro Training at Information Technology Institute **ITI Powered by (EPITA),** School of Engineering and Computer Science Paris**.**

Oct. 2015 – July 2020

BSc in Mechatronics Engineering Misr University For Science & Technology**.**

Projects

Arabic handwriting: Arabic Handwritten Characters Recognition.

- Retrieve the images and label them from a CSV file.
- Prepare the images for the model using image processing.
- Building a CNN neural network to classify the images.

Image Classification: It`s a technique to classify the image.

- Using Softmax and Relu function.
- Learn to convert images into vector.
- Classification the image in model.

Waiter Robot :

- Fully automated robot using mapping algorithm localization and path planning.
- Obstacle Avoidance static and dynamic obstacle

UGVC Competition :

- Navigation using GPS coordinate with Compass outdoor.
- Avoid obstacle using lidar and algorithms

Certificates

- Data Scientist with Python Track **Datacamp**
- Machine Learning by Andrew Ng. **Coursera**
- Deep Learning Specialization by Andrew Ng **Coursera**
- Red Hat System Administration **Red Hat Academy**

Language

Arabic: Native. English: Fluent.

Personal Skills

- Eager to learn and fast learner.
- Time management.
- Flexible.
- Teamwork.

Personal Information

- Date of birth: 15/03/1998.
- Military Status: Exempt.

References

References are available upon request.