Abed el karim Hajo

Artificial Intelligence Engineer

I have acquired strong experience throughout my work in constructing machine learning models for NLP and computer vision deployed in production. Currently a full time AI engineer at Assentify working on various computer vision and GenAI projects.

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EDUCATION

Computer and Communications Engineering
Lebanese University - Faculty of Engineering

2018 - 2024   *Beirut, Lebanon*

Courses
- Analog and Digital signal processing, Telecommunications
- Probability and statistics, Data analysis & visualization

ReACT-MIT Computer & Data Science Program
Massachusetts Institute of Technology

09/2020 - 09/2021   *Remote*

Courses(MITx and IBM)
- Computational Thinking and Data Science
- Analyzing Data with Python

WORK EXPERIENCE

AI Engineer
Assentify

07/2023 - Present   *Beirut*

Achievements
- PIpeline for Processing PDFs with OCR and LLM APIs
- Fine-tuned yolov5 face detection model
- Built a liveness ID image classifier using SVM model
- Built a complete API for LinkedIn account matching and scraping
- Containerized with Docker the AI services

Machine Learning Engineer
SysDICE

11/2022 - 05/2023   *Remotely*

Achievements/Tasks
- Script development for Auto-generation Rasa chatbot files from a CSV input
- Deep understanding of Rasa's architecture

Data Scientist Intern
Spring communications

07/2022 - 08/2022   *Remotely*

Tasks
- Data extraction techniques on several websites (Youtube, Instagram) using Selenium and Beautiful Soup python libraries

Artificial Intelligence Tutor
Innovators Academy

07/2023 - Present

Achievements/Tasks
- Machine learning tutor for youth
- Data science tutor for youth

SKILLS

`Python` `C/C++` `Git` `Docker` `Azure`
`Batch` `Rasa` `Data analysis`
`Web scrapping` `NLP` `gRPC` `API`

PERSONAL PROJECTS

1- Lung Tumor Cancer Detection
- Implementation of U-net deep learning architecture to detect lung tumor in CT scans.

2- Predictions of Candidates Acceptance
- Data cleansing, feature engineering and exploratory analysis of demographic characteristics of the candidates.
- Train different classification models to enhance predictions. (Random forest, XGBoost, AdaBoost)

3- Predictions of Customers Interest in Vehicle Insurance
- Data analysis on the past health insurance customers features.
- Training with logistic regression and random forest for predictions.

CERTIFICATES

Machine Learning - Stanford University (Coursera)
Covered the math behind various supervised and unsupervised ML algorithms

Prompt Engineering for Developers (DeepLearning.AI)
Covered various prompts for achieving customized outputs. Used the API for building customized chatbots.

Transformers for Computer Vision - (Coursat.ai)
Understanding core concepts of Attention mechanisms in transformers. Built

Convolutional Neural Networks - (Coursera)
Apply convolutional networks to face detection & recognition.

MIT Entrepreneurship, Innovation and Leadership Bootcamp.
Worked with a team through an intensive 10 week bootcamp on finding a solution for the knowledge retention problem most learners face.

LANGUAGES

Arabic
Native or Bilingual Proficiency

English
Full Professional Proficiency