ABDULLATIF EID

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aeid.me

AI Engineer

Summary

A motivated AI engineer, enthusiastic by new challenges and tasks and take excellent approach to achieve success in all projects. I like to work in complex projects which have scope for learning and challenge. I have developed skills in programming in many languages as well as software engineering, artificial intelligence and big data.

Experience

04/19 - Current

Artificial Intelligence Engineer

Netways - Lebanon

- Working on a virtual assistant for a leading Lebanese mobile application (DiasporaID) in both English and Arabic languages.
- Using Middleware Architecture to process the data from the UI all the way to the chatbot.
- Using Rasa for Natural Language Understanding and Dialogue Management.
- Managing Azure Virtual Machines and deploying the chatbots using Docker.
- Collaborating with the UX, UI and backend team to architect solutions.
- The virtual assistant helps users get more information about the Lebanese mayors, ambassadors, embassies, consuls and consulates as well as companies all over the globe. It can take input from keyboard or microphone (as a speech).
- Working on a real-time dashboard for re-training purposes and deploying it on Azure (using Azure App Service and Azure Container Registry).
- Keywords: Artificial Intelligence, Virtual Assistant, Rasa, Microsoft Cognitive Services, Python, Docker, Stories, Intent and Entity Recognition, Defining Rasa Pipelines and Architecture, Natural Language Processing (NLP).

07/16 - 09/16

Internship at Alfa Operator

Position Held: Trainee - Lebanon

- Pre-optimization of newly added sites (2G, 3G and LTE).
- Drive test, indoor and outdoor design.
- Developed a visual basic application for excel (Macro).

08/15 - 09/15

Internship at Mobinets - Telecom Company

Position Held: Trainee - Lebanon

- Worked on LAC/RAC optimization
- Worked on genetics algorithm using JAVA

Education

02/17 - 07/17

HEIG-VD (Haute Ecole d'ingénierie et de gestion) - Switzerland

Final Year Project

- The current availability of the first humanoid robots opens up a wide range of applications. The goal of this internship is to program the robot Pepper to participate in a ping pong game.
- Convolutional neural networks to track a ping pong ball.
- Prediction of the trajectory of the ball using different machine learning algorithms.
- Wifi communication between Pepper and the external world.
- This project was done to get my diploma at the Lebanese University
- Grade: 85/100
- Keywords: Machine Learning, Networking, Python, TensorFlow, Theano, CNNs, Linux, Choregraphe, Computer Vision, Ubuntu

09/12 - 07/17

Lebanese University – Faculty of Engineering Branch I

Tripoli – LEBANON

- Master of Engineering in Electrical and Computer Engineering (BAC +5)
- Option: Computer and Communication Engineering

09/11 - 07/12

College Des Frères Deddeh

Deddeh - LEBANON

- Lebanese Baccalaureate GS: Official in 2012
- Grade: Very Good

University Projects

- **Database Project:** A C# and SQL application that manages a bank (admins, customers, accounts, etc.).
- **Programming Project:** A Blackjack game coded in C# with different rules and a userfriendly GUI.
- **Software Engineering Project:** Hospital Management System – coded in C#. Project includes team work (MVC model), using SVN and unit tests.
- **Numerical Analysis Project:** Gravity assist simulation with 3D animation using Matlab.
- **Android-Arduino Project:** The goal was to control a robot from distance and exploit Arduino phone's hardware. An android phone is connected to an Arduino using USB. Another android phone is connected to the attached-phone using Wifi-Direct. The application was coded in Java using Android Studio.

Summary Skills

- **Software:** MS Office Suite, Microsoft Visual Studio Code, Spyder, Jupyter Notebooks, Microsoft SQL Server Management Studio
- **Programming languages:** C, C++, C#, Python, Java, HTML, PHP, JavaScript, SQL, ASP.NET
- **Languages:** Fluent in English, Arabic and French (writing, reading and speaking)
- **AI Skills:** Data preprocessing, cleansing and labeling. Building classifiers, evaluating models, hyper-parameters tuning, machine learning algorithms, deep learning models (CNNs, RNNs, LSTMs, GRUs, etc.), defining machine learning pipelines, Azure AI portfolio, Chatbots, Rasa, Python Visualization, Machine Learning and Deep Learning libraries (Scikit Learn, TensorFlow, Keras, Pandas, Numpy, Seaborn)
- **Azure:** Azure App Service, Machine Learning Service, Machine Learning Studio, Azure Kubernetes Service (AKS), Language Understanding Intelligence Service (LUIS) , QnA Maker, Bot Service, Azure Container Registry, Azure IoT Edge, Cognitive Services

Portfolio

My personal website (www.aeid.me) contains a few machine learning projects (based on real-life datasets) that I did using Jupyter Notebooks. Projects include:

- Data preprocessing
- Data cleansing
- Data labeling and normalizing
- Building classifiers
- Evaluating models using different techniques
- Hyper-parameters tuning
- Extracting insights from real-life datasets

Certifications

Microsoft Certified: Azure AI Engineer Associate

Credentials: Acclaim Badge

Description: Azure AI Engineers use Cognitive Services, Machine Learning, and Knowledge Mining to architect and implement Microsoft AI solutions involving natural language processing, speech, computer vision, bots, and agents.

Microsoft Professional Capstone : Artificial Intelligence

Credentials: Verified Certificate of Achievement (Grade: 98/100)

To earn this certificate, I took the following courses on Microsoft edX as a part of the Microsoft AI program:

Computer Vision and Image Analysis, Principles of Machine Learning: Python Edition, Deep Learning Explained, Natural Language Processing (NLP), Speech Recognition Systems.

References

Available upon request.