Ahmed Sadaqa

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EDUCATION

American University of Beirut (AUB), Lebanon   Expected Graduation Date: May 2022
    Degree: Bachelor of Science (BS) in Computer Science
    Cumulative GPA: 3.75/4.0
    Relevant Courses Taken: Advanced Algorithms and Data Structure, Machine Learning, Data Science, Operating Systems, GPU computing, Software Engineering, Database Systems.
    Scholarships: MEPI Tomorrow's Leaders Full-Funded Scholarship Program
    Honors/Awards: Dean's Honor List, 4 semesters

University of Pennsylvania, USA   Aug 2021 – Dec 2021
    Exchange Semester in the International Guest Student Program (IGSP)

EXPERIENCE

American University of Beirut (AUB)   Dec 2021— Present
Undergraduate Research Assistant
- Assisting in extracting information from Arabic and medical documents using data science techniques.
- Conducting research on the integration of machine learning in the medical field.

American University of Beirut Medical Center (AUBMC)   June 2021— Aug 2021
Software Engineering Intern
- Migrated several vital applications from an old server to a new one.
- Updated applications from ASP to ASP.NET.
- Deployed application into the production stage.

Beirut Digital District (BDD)   June 2021 — Aug 2021
Research Intern
- Conducted research on implementing new technologies in the workplace such as IoT, and embedded systems
- Examined the integration of machine learning in the workplace to optimize the use of space.

PROJECTS

Twitter Bot Detection – Given a Twitter user's profile and history of tweets, we built a binary classification model to detect if a user is a bot or human. In this project, training data was collected from an online source but testing data was downloaded manually through the Twitter API. The models used in this project varied from simple one such as logistic regression to complicated one such as Neural Network. We presented the results corresponding to each model along with various performance metrics such as accuracy, f1-score, and AUROC. This was the final project in CMPS 287 (Machine Learning) and was accomplished by five members.

Branch Network Optimization – Unsupervised machine learning was used along with spatial and consumer behavior data to determine the optimal location for retail branches. This project systematically followed the machine learning pipeline and was the final project in CMPS 276 (Data Science) and was accomplished by a team of three students.

Jaccard Coefficients for Graphs – This project was about parallelizing a sequential C code on finding the Jaccard Coefficients in graphs using Cuda. In addition, several optimizations were done to improve the runtime such as thread coarsening and privatization. This was a final project is CMPS 297S (GPU Computing) and was accomplished by a team of three.

PennOS - It is a UNIX-like operating system that includes several functionalities such as basic priority scheduler, FAT file system, and user shell interactions. PennOS was a final project in CIS 380 (Operating System) and was accomplished by a team of five students.

Online Queue System - A web application built using the Django framework where customers can queue remotely using their mobile phones without the need for extra infrastructure and taking into consideration social distance.

PRECOVID - An AI system built with OpenCV and TensorFlow/Keras that can detect face masks in static images using Deep Learning and Computer Vision.

EXTRACURRICULAR ACTIVITIES / LEADERSHIP

AI Ready Academy – Zaka/Microsoft, Beirut, Lebanon   Dec 2020- Mar 2021
- Introduced to fundamentals and concepts of cloud computing, data science, and machine learning.
- Became Microsoft certified for AZ-900, DP-900, and AI-900.
- Participated in two hackathons and developed a hate speech detection tool using NLP.

AI Bootcamp – Beirut AI, Beirut, Lebanon   Aug 2020
- Introduced to the different areas of AI such as machine learning, deep learning, computer vision, NLP, time series analysis.
- Participated in the final hackathon and developed a face mask detection tool using computer vision techniques.

TIMBA Tutoring Program, Philadelphia, U.S.A.   Aug 2021 – Dec 2021
- Volunteered as an English and Math teacher to underprivileged African Americans students.
- Tutored an introduction to coding and computer science using python to several students.

Help Syrian Kids, Beirut, Lebanon   Aug 2018 – Aug 2020
- Volunteered as an English and Math teacher to underprivileged Syrian refugees.
- Prepared, organized, and monitored events such as open English dialogues, Art events, and Sports events.

SKILLS

Languages: Fluent in Arabic, Proficient in English
Client-Side: HTML, CSS, JavaScript, Vue.js, Bootstrap
Server-Side: Python, NumPy, pandas, SciPy, Keras, TensorFlow, Scikit-learn, Pytorch, C++, Java, C, Django, Node.JS, ASP.NET Web Forms, ASP.NET MVC, ASP.NET Core MVC, Vue.JS, APIs, C#, Visual Basic, SML, SQL, PHP
Technical: GIT, TFS, Agile, Scrum, Database Management