an El Banr

Education

AMERICAN UNIVERSITY OF QUIZUP APP BEIRUT

BS IN COMPUTER SCIENCE

2020-2023

♀ Beirut, Lebanon

Links

GitHub imanle

in Linkedin Iman El Banna

Coursework.

GRADUATE

Advanced-Data Structures and Algorithms **Object Oriented Programming** Database Systems **Operating Systems** Software Engineering **Data Science** Parallel Computing Statistics and Probability

Skills.

PROGRAMMING

Machine Learning Discrete Structures

Python • R • Java • C/C++ • HTML/CSS • CUDA • Dart • mySQL • data cleaning data mining

MISCELLANEOUS

Shell • LaTEX • Firebase • Git • Jupyter Notebook • Mathplot • Mathlab • Pandas library • numpy library

Projects_

March 2021 – April 2021

♀ Lebanon,Beirut

- Developed a multiplayer game using flutter in which two randomly assigned players compete against each other to test their knowledge on certain topics and win points. Players can also check their rank on the leaderboard. The game works on all android devices.
- Worked in a group of four
- Frontend: Dart Backend: Dart Database: Firebase

DATA SCIENCE PROJECT

Mov 2022 – Dec 2022

♀ Lebanon, Beirut

• Using R, Python, and a used vehicle's dataset, we found the most important features in the dataset and predicted the price of used vehicles.

DRAYFUS WAGNER ALGORITHM

₩ Sep 2022 – Dec 2022

♀ Lebanon, Beirut

- Implemented the Dreyfus Wagner algorithm and parallelized it on the GPU.
- This algorithm is used to solve the Steiner Tree problem(find a tree (Steiner Tree) of minimum total weight that includes all the terminal vertices)

Competitions

COMPETITIVE PROGRAMMING

LCPC

♀ Lebanon, Beirut

• Participated in the 2020 Lebanese Collegiate Programming Competition (LCPC) Participate in sessions involving solving problems on various topics.

Projects Now.

MACHINE LEARNING PROJECT

Present day

♀ Lebanon, Beirut

We are given a dataset and our task is a classification problem where the goal is to distinguish between a signal process where new theoretical Higgs bosons (HIGGS) are produced, and a background process with identical decay products but distinct kinematic features.

PARALLEL KEYWORD SEARCH ON KNOWLEDGE GRAPHS

Present day

♀ Lebanon, Beirut

Currently implementing a 2-stage parallel algorithm where, given a query, we extract and rank the Central Graphs found.