Lydia AIT OUCHEGGOU

4th year computer science student

Organized and motivated, I am a fast learner with critical thinking and have strong communication and collaboration skills.

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EDUCATION

Master in Computer Science
Ecole Superieure d'Informatique (ranked 1st in Algeria)

09/2016 - 06/2021   *Algiers, Algeria*

Baccalaureate, mathematical series (High Honors)
Mustapha BEN BOULAID High School

09/2013 - 07/2016   *Tizi-Ouzou, Algeria*

PROJECTS

Combinatorial optimization project (03/2020 - 07/2020)
- Development of an educational platform to resolve the knapsack problem. (exact methods, heuristics, meta-heuristics).
- Implementation of three heuristics with python.
- Link: https://github.com/LydiaNosali/knapsack_problem_heuristics

Projects in machine learning (02/2020 - 07/2020)
- Implementation of simple linear regression and polynomial regression models and of binary and multinomial logistic regression with ordinal and One Hot encoding.
- Implementation of automatic algorithms to build decision trees (IDE3, CART) and of a Naïve Bayes classifier.
- Implementation of forward propagation neural networks.
- Implementation of a vector machine (SVM) and kernel SVM.

Fleet management project (02/2020 - 05/2020)
- Conception and implementation of Data collection and transmission secured systems, from fleet's vehicles to the park's database (incl. speed, distance travelled) using python, C++ and PostgreSQL.

Advanced networks (12/2019 - 02/2020)
- Implementation of a QoS-based flow control system over VPN / MPLS on GNS3.

High Performance Computing Project (HPC) (09/2019 - 02/2020)
- Built a mini-cluster and analysed parallel programming performance using C.
- Link: https://github.com/LydiaNosali/mini_cluster

Multidisciplinary project (03/2018 - 05/2018)
- Implementation of a desktop application for monitoring the management of ESI advances and receipts using C# and MySQL for the data.

Mobile development project (07/2017 - 09/2017)
- Mobile game implementation on product delivery with C# and unity.

WORK EXPERIENCE

Mobile Developer
Omotion Technologies

02/2019 - Present   *Algiers, Algeria*
- Development of JSON content files with HTML, CSS for mobile applications in flutter for Google Play.

Web Developer
AL SALAM Bank

09/2019 - 10/2019   *Tizi-Ouzou, Algeria*
- Implementation of a web portal within AL SALAM bank.
- Interacted directly with customers during development to update order requirements, gave feedback on testing procedures, and ensured final product met operational targets.
- Link: https://github.com/LydiaNosali/Al_Salam_Bank

SKILLS

`Machine Learning` `Deep learning` `JavaCC, Lex` `OpenMP, MPI/OpenMPI, CUDA` `HTML, CSS` `Laravel` `MySQL, SQLServer, SQLite` `Gantt, MSProject, Trello, Git, GitHub,MS Office` `GNS3` `Programming languages : Python (Skitlearn, numpy, matplotlib, pandas), Java, C, C#, PHP` `Public speaking`

ACHIEVEMENTS

Hack UPC Barcelona 2019 (10/2019 - 10/2019)
Largest hackathon in Europe . Collaboratively worked on building an Application aimed to randomly match users based on conversation topics (mathematics, literature …)

CERTIFICATES

CISCO CCNA Routing and Switching (CCNA2) (03/2020 - 05/2020)

CISCO CCNA Networking Basics (CCNA1) (12/2019 - 03/2020)

LANGUAGES

English
Advanced

French
Fluent

Arabic
Fluent

Tamazight
Native

INTERESTS

`Traveling` `Swimming` `Cinema` `Literature`