

ALI ISSAOUI

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WORK EXPERIENCE

Illinois Institute of Technology

June 2021 - Dec 2021

Artificial Intelligence Researcher - Academic

Chicago, IL

Worked with a team of 2 Ph.D and 3 Master's students on the Computer Vision task of Neural Tracing/Segmentation in Densely Labeled Multispectral Images under the supervision of Dr. Yan Yan.

INRIA: National Institute for Research in Digital Science

October 2020 - February 2021

Machine Learning Intern

Bordeaux, France

Participated in building, training, testing, and deploying a complexe recurrent neural network for Video Analysis and Pattern Recognition using python, with Tensorflow and Keras frameworks.

SKILLS

Languages

English (Full proficiency), French (Native), Arabic (Native), Spanish (Limited).

Programming

Python (Tensorflow, Pytorch, Numpy, Pandas...), C, C++, Java, Kotlin.

Databases

MySQL, PostgreSQL, Cassandra (NoSQL).

Tools

Shell, Git, Docker, VSCode, Android Studio, Jupyter Notebook.

EDUCATION

Illinois Institute of Technology, Chicago, IL

January 2021 - Dec 2021

Master of Artificial Intelligence. Overall GPA: 4.00/4.00

Relevant courses: *Advanced AI, Machine Learning, Deep Learning, Data Mining,*

Data Intensive Computing, NLP, Advanced Social Media Analysis.

ENSEIRB-MATEMCA - Bordeaux INP, Bordeaux, France

September 2019 - Dec 2021

Master of Science in Computer Science.

Relevant courses: *AI, Cloud computing, Adv Operating Systems, Parallel computing, Compiling, Software Engineering, Mobile app development .*

ENSEIRB-MATEMCA - Bordeaux INP, Bordeaux, France

September 2018 - June 2019

Bachelor of Science in Computer Science.

Relevant courses: *Data Structures & Algorithms, DBMS, OOP, Web Development, Networks programming, Systems programming, Computability, Functional programming*

CERTIFICATES (COURSERA)

- Neural Networks and Deep Learning.
- Improving Deep Neural Networks: Hyperparam tuning, Regularization and Optimization.
- Convolutional Neural Networks.
- Structuring Machine Learning Projects.

PROJECTS

Camouflaged Object Detection – IIT

Mars 2021 - May 2021

- Built, trained, and tested a model for a supervised Computer Vision task aiming to identify camouflaged objects in an image. *Python, Tensorflow/Keras.*

Perceptual Losses for Real-Time Style Transfer – IIT

Mars 2021 - May 2021

- Built, trained, and tested a model for the unsupervised Computer Vision task of style transfer using a feature model as a loss function to the transformation model. *Python, Pytorch.*

GIGI Cryptocurrency system – IIT

June 2021 - July 2021

- Participated with a team of 5 in building a new cryptocurrency system by creating a Distributed Key Value Store. *Python, Cassandra (NoSQL Database).*

Alpha Zero Connect 4 – IIT

Mars 2021 - May 2021

- Developed the Connect4 game with multiple agents based on the AlphaZero technique using CNNs and Monte Carlo Tree Search in Python Keras. *Python, Keras.*

Go AI Agents – Bordeaux INP

Feb 2020 - May 2020

- Developed multiple agents for the game GO, with a team of 2, based on several AI and ML technologies such as A*, Alpha-Beta, CNNs, MCTS, ranked 4th out of 52 teams. *Python, Keras.*

Cart'eirb – Bordeaux INP

Sept 2019 - Jan 2020

- Developed, with a team of 3, a website and a database to create and collect game cards, decks, players, games and tournaments, with population scripts and advanced search queries. *PHP, MySQL.*

Peer 2 Peer Network – Bordeaux INP

Feb 2020 - June 2020

- Developed, with a team of 4, a Peer 2 Peer Tracker Centred application for uploading and downloading files. *Java, C.*

HONORS AND AWARDS

Moroccan Merit Scholarship

Moroccan Merit Scholarship for the students admitted in the best French Engineering Schools (Best 4% in Morocco).

French Government Excellence Scholarship

Scholarship given by The French Ministry for Foreign Affairs to the best foreign students studying in France.

Aquitaine Region Mobility Scholarship

Scholarship given by the Bordeaux Region in France to the best students to study in the United States.

ACTIVITIES

Travel

Visited 10 Countries in one year (2019).

Climbing

Climbed highest mountains in Morocco (13,671 ft) and Poland (8,212 ft).

Associations

Active member and admin in several associations (e.g. Council of Europe, CliMates)

Esport

Gamer, ex 1st division in FIFA.