HICHEM SEMMAR

♥ Dublin, Glasnevin

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• Hichem-smr

EDUCATION

European Master in Law, Data and AI – Computing Stream (Erasmus) Z Sep 2023 – May 2025 Dublin City University – Avignon Université

- Fully funded Erasmus Mundus Scholarship.
- Algeria's representative among 26 other ambassadors of different countries.
- Chosen from 2000 application.

Master's degree in Computer Science – Artificial Intelligence Sep 2021 – Jul 2023 University of Science and Technology Houari Boumediene (USTHB) – Bab Ezzouar, Algeria

Samsung innovation Campus - Artificial Intelligence

Jul 2022 – Dec 2022

- Fully funded training camp (350h) in the field of AI.
- Project Realisation & Team-lead.
- Chosen from 32000 application.

Bachelor's degree in Computer Science

Sep 2018 - Jul 2021

University of Science and Technology Houari Boumediene (USTHB) - Bab Ezzouar, Algeria

Baccalaureate in Technical Mathematics

Sep 2017 - June 2018

Mohamed Seddik Ben Yahia High School – Tipaza, Kolea, Algeria

PROFESSIONAL EXPERIENCE

Artificial Intelligence Internship

Feb 2023 – Jul 2023

Research Center on Scientific and Technical Information (CERIST) - Algiers

Development of a new Convolutional Neural Network architecture for a Pulmonary Lesions segmentation along with a 3D visualization.

- UNet Varation.
- Github team Collaboration.
- Dataset Collection.

Application Development Internship

Dec 2021 - Sep 2022

Emploitic – Algiers, Draria

Web-scrapped 76 foreign job offers to Novojob.com database then automated the data insertion (over 50k offers) using Dockerazation.

- Python Scrapy Library.
- Docker Ubuntu-18.04 Images.
- Database managed with SQL.
- Github team Collaboration.

Browsers Extension Development Internship

Dec 2019 - Jan 2020

Emploitic – Algiers, Draria

Development of Firefox/Chrome extension that scrapes automatically LinkedIn profiles.

- Javascript.
- Github team Collaboration.

PROJECTS

BiotIA Website, Bacteria Resistance Tracking

Mar 2023 - Jul 2023

National website that tracks the resistance of the bacteria, synchronizing all the laboratories' data into a single place.

Nasa Space App Challenge - The Art in Our Worlds (Hackathon)

Oct 2022 (56h)

Developed a generated-AI that creates artist pictures in the context of space. Trained on Nasa's APOD database combined with pictures of real artists.

Water Sources Potability Classification (SIC's Project)

Jul 2022 - Dec 2022

Realization of an intelligent embedded system device that uses Machine Learning and Deep Learning with integrated with sensors and a microscope to determine water potability.

Detection and Classification of Mammary Pathologies (Bachelor's project)
Detection of Mammary Pathologies from Mammographic Images and their Malignancy Classification using the Theory of Evidences, Fuzzy Sets and Image Processing.

Collaborative Enhancement of PyDS Library Using OOP (Open Source) Dec 2020 - Jul 2021 Integrated additional combination methods to the theory of evidence: Smet, Yager, Dubois-Parade, and Dezert-Smarandache. Optical Character Recognition— **Deep learning**. Bank Deposits prediction – **Deep-learning** . Classification of financial customers complaints according to their specific financial services – LSTM . Classification of traffic road signs – CNN. Classification of smiling/sad face – CNN. ARTICLES Exploring the Impact of E-Privacy Directive Sep 2023 - Dec 2023 The paper explains the key sections and the purpose of the directive, critiques its deficiencies and proposes enhancements for the future upcoming Regulation. Twitter's AI Image Cropping Tool with Racial Bias 🗹 Sep 2023 – Nov 2023 The paper reveals biases in Twitter's AI image cropping, comparing to ethical issues and GDPR concerns. It suggests alternatives, emphasizing the tradeoff between algorithmic consistency and human judgment. Chest-CT Scan Lung Segmentation Used Techniques Sep 2023 - Oct 2023 The literature review explores AI's pivotal role in advancing lung and lesion segmentation in medical imaging, emphasizing the superiority of Deep Convolutional Neural Networks. Classifying Water Infestation Dec 2022 - Feb 2023The paper introduces a new Deep Convolutional Neural Network approach for Bacteria identification using Microscopic-images and density calculation. SKILLS GDPR, Research, AI and Ethics, Data-Visualization, Data Governance, Semantics, Comparative Digital-Law, Machine Learning, Deep Learning, Data Mining, Genetic Algorithms, Dis-Concepts tributed Intelligence, Neural Language Processing, Stochastic Processes, Graphical Models, Uncertainty Quantification, Constraint Satisfaction, Game Theory, Multiagent Systems, Computer Vision. Languages C/C++, Python, Java, Camel, JavaScript, HTML/CSS, SQL, MySQL, SQLPlus, SQL3. TensorFlow, Keras, Pyds, NodeJs, Flask, SQLAlchemy, Scikit-learn, Pandas, Matplotlib, Libraries Seaborn, Numpy, Selenium, Scrapy, OpenCV, Mongodb, BeautifulSoup, nltk, Pyqt5, Spade. • Adaptability, Teamwork, Communication: Internships. • Public Speaking, Critical Thinking, Problem-Solving: University. Soft Skills • Leadership, Conflict Management, Stress Management: Samsung Training/Project. Tableau, GitHub, Linux, Sony Vegas Pro; Reaper, Canvas, Latex. **Tools** LANGUAGES French TCF B2 Arabic Native English Ielts 6.5 (B2) CERTIFICATIONS

Incubation Program By OpenMindsClub Step and talk English event 2022.

Jul 2019 - Jul 2019 Redhat Trainning camp

Mar 2022 – Avr 2022

 $Mar\ 2022-Mar\ 2022$