JADE YGOUF

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EDUCATION

IMPERIAL COLLEGE LONDON, London   **September 2024**
MSc, Environmental Data Science and Machine Learning
Applied computing techniques and machine learning to address real-world environmental problems.
Recipient of a full tuition scholarship and sponsorship from TotalEnergies, predicted to graduate with Merit.
Relevant modules: Machine Learning, Computational Mathematics, Deep Learning, Environmental Data, Advanced Programming and Big Data Analytics.
Master thesis: VisionGraph: Using Deep Neural Networks for Automated Digitalisation of Geological Survey's Line Charts

UNIVERSITY COLLEGE LONDON, London   **June 2023**
Bachelor of Arts and Sciences, majoring in Sciences and Engineering.
Analytically oriented interdisciplinary degree awarded with a First Class of Honours.
Relevant Modules: Econometrics, Microeconomics, International Relations (70%), Data Visualisation with Python (68%), Foundations of Machine Learning (79%), Engineering, Technology and Innovation (73%) and Environmental Economics (73%).
Dissertation: From discourses to emotions: A Twitter data-driven study of environmental worry through NLP (73%).

Lycée Lavoisier, Paris   **June 2019**
French Baccalaureate, majoring in Sciences (Further Maths, Physics and Biology) with High distinctions (17.3/20)

EXPERIENCE

TOTALENERGIES, France   **May 2024-Present**
Data Science and Machine Learning Intern (Full-time)
- Developed from scratch python pipelines for image processing and text recognition using Pillow, OpenCV, and Tesseract OCR.
- Implemented on Azure transfer learning techniques, including YOLOv8 and Detectron 2 (Mask R-CNN), to extract the datapoints of line graphs in scanned geological reports, extracting valuable information for carbon capture and storage's team.

BNP PARIBAS CARDIF, Colombia   **Summer 2022**
Summer Data Analyst Intern (Full-time)
- Developed a data analytics dashboard for Bancolombia using Matplotlib which helped the client identify the main characteristics of their customers while working closely with engagement and marketing teams.
- Researched how analytics permit to deploy an innovative value proposal analysing their set of metrics (KPI's).
- Coded the first pilot project for geolocating customers using Google API by working with unstructured data (+ 3m customers' database).

ZUNCHO, Colombia - United Kingdom   **Jun. 2022-Present**
Co-founder (Small Business owner)
- Collaborated with Colombian artisans to build the first eight prototypes of the recycled bags optimising both user friendliness and visual appeal.
- Researched market trends to effectively target Etsy customers and successfully sold bags at local markets in London.

UCL STUDENTS' UNION, United Kingdom   **Jul.2021 – Jul.2022**
Women's Officer (Part-time)
- Took leadership inside the UCL Students' Union by launching the Full Stop Campaign and gained expertise in project management by organising weekly events.

AXA PARTNERS, International Roadside Assistance Agent (Full-time), France   **Summer 2021**
OASIS BY FONDACIO, International Volunteer for 6 months, Colombia   **Oct. 2019–March 2020**

TECHNICAL SKILLS

- **Languages:** Python and C++.
- **Libraries:** Pandas, NumPy, Pytorch, scikit-learn, TensorFlow, nltk, Matplotlib, geopandas, BeautifulSoup, Seaborn and Plotly.
- **Methods:** Machine Learning (multivar. linear/logit, regularised, tree-based and count regressions, neural networks), statistical analysis (hypothesis testing, PCA), NLP (NER, topic modelling), time series, computer vision (Yolov8 and Detectron2).
- **Tools & Cloud Platform:** Jupyter Notebook, VS Code, Docker, Overleaf, Git, Azure, Dataiku, Google Suite and Microsoft Office.
- **Awards:** Achieved 3rd place in Warwick's Data Science Society competition with a top-performing Premier League predictive algorithm. Secured a top-three position at the H-W3B London Hackathon 2024 by leveraging blockchain technologies for sustainability.

RELATED ACADEMIC GROUP PROJECTS

- Developed an interactive map by integrating geospatial and topographical data to assess flood risks effectively.
- Predicted storm behaviour using deep learning and time series models, utilising satellite data from 30 tropical storms.
- Trained a Variational Autoencoder as a generative model for wildfires.

LANGUAGES AND INTERESTS

- Fluent in English and French (Native); Spanish (Professionally proficient); German (Basic).
- Demonstrated flexibility, adaptability and resilience from having lived in 3 different countries (France, Colombia, and the UK).
- Avid dancer and painter, having developed consistency and a strong work ethic by balancing sports with academics and activities
- Worked in various temporary roles concurrently with academic pursuits at UCL.
- Educated and trained on environmental issues as a facilitator of the Climate Collage.