Hamza Boulahia

+216 27566873 | hammzaboulahia@gmail.com | in /hamzaboulahia | \ \ \ /Hmzbo



WORK EXPERIENCE

Data Scientist

Aléria Consulting (May 2022 – Present)

- Developed a web application for webpage attention heatmap prediction
 - o Training and testing a deep learning model to predict webpage saliency.
 - Achieving more than 85% accuracy on the Webpage Saliency public dataset.
 - o Implemented a robust Python API for seamless model integration.
 - Skills: Python, U-Net, OpenCV, Flask
- Designed a Windows desktop application for ID Optical Character Recognition (OCR)
 - o Creating and optimizing object detection models for efficient extraction of information from ID cards.
 - Applied advanced image processing techniques to minimize OCR errors.
 - o Achieving accurate and reliable extraction of data from ID cards, and delivering product within due time.
 - Skills: Python, YOLO, OpenCV, Tesseract-OCR, PyQT5

Freelancer

(Oct 2020 – Present)

- Creating and improving machine learning models using Python as per client's requirements.
- Performing exploratory data analysis to extract insights and delivering detailed reports.

Math Tutor

Sigma Training Center (Oct 2016 – Aug 2018)

- Tutoring students in bachelor level mathematics (Calculus, Linear Algebra, and Convex Optimization).
- Incorporating visuals using Python to help students better understand certain math concepts.

EDUCATION

Research Master in Mathematical Modeling and Scientific Calculations

National Engineers School of Tunisia (2014 – 2016)

Bachelor of Science in Applied Mathematics

Higher School of Science and Technology of Tunis (2011 - 2014)

CERTIFICATIONS

- TensorFlow 2 for Deep Learning (<u>Coursera</u> Aug 2021)
- Deep Learning Specialization (Deeplearning.ai Oct 2020)
- Machine Learning (<u>Coursera</u> Apr 2020)
- Data Analyst Nanodegree (<u>Udacity</u> | Oct 2019 Jun 2020)

SKILLS

Languages: Arabic (Native), French (Good Command), English (Good Command).

Programming Languages: Python (NumPy, Pandas, PyTorch, TensorFlow, Plotly, Streamlit), SQL, C, Matlab, Fortran.

Computer Vision: OpenCV, CNN, Vision Transformers, YOLO, Stable Diffusion.

Tools: Git, MySQL, PyQT5, Selenium.

PROJECTS

• Web application for football video analysis (Github | YOLOv8, OpenCV, Streamlit):

Creating a web application for football object detection with team prediction and tactical map representation.

• Customized chatbot web application (Github | GPT-3.5, Gradio, Tacotron 2):

Creating a chatbot web application for lyrics generation and speech synthesis using deep learning model for voice cloning.

• Web scraper for job offers on LinkedIn (Github | Python, Selenium):

Creating a web scraper to collect job offers data based on a job title and location, and save the extracted data in csv files.

INTERESTS

Reading, educational videos creation, freelancing on Fiverr & Upwork, and calisthenics workout.