Anis Guechtouli

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PROFILE

Motivated Data Science Master's student with a Bachelor's degree in Information Systems and practical experience in data analysis and science. Completed a 6-month Data Analyst internship in the insurance sector and currently advancing skills as a Junior Data Scientist intern at Djezzy. Dedicated to extracting actionable insights and committed to continuous learning, innovation, and professional growth.

EDUCATION

11/2020 – 07/2023 Algiers, Algeria	**Bachelor's degree in Information Systems** *University Of Algiers 1 - Benyoucef Benkhedda*
09/2023 – present Algiers, Algeria	**Master's Degree in Data Science** *University Of Algiers 1 - Benyoucef Benkhedda*

SKILLS

- **Programming :**
  - **Python :** Proficient in data analysis (Pandas, NumPy), visualization (Plotly, Matplotlib), machine learning (Scikit-learn), web scraping (BeautifulSoup), and building interactive web apps (Streamlit).
  - **NLP :** Familiar with LangChain for language model integration and chatbot development.
  - **Big Data :** Proficient in distributed data processing using PySpark.
- **Database Management :**
  - **SQL :** Advanced skills in complex query design (JOINs, subqueries), CRUD operations and query optimization.
  - **NoSQL :** Familiar with MongoDB for unstructured data workflows.
- **Data Visualisation :**
  - **Tools :** Skilled at creating interactive dashboards and reports using Tableau and Power BI.
  - **Excel :** Proficient in creating dynamic reports, pivot tables, and visualizations for business analysis.
- **Tools & Platforms :**
  - **Development :** Jupyter Notebook for iterative analysis, Kaggle for collaborative projects.
  - **RDBMS :** Experience working with Oracle, MySQL, SQLite, and phpMyAdmin for database management.
  - **Version Control :** Proficient in Git and GitHub for collaborative code management and version control.

LANGUAGES

- **Arabic**: Native
- **English**: Proficient
- **French**: Intermediate

EXPERIENCE

02/2023 – 06/2023 Algiers, Algeria	**Data Analyst Intern** *CAAR (Compagnie Algérienne d'Assurance et de Réassurance)* 🔗 • Developed a user-friendly data analysis dashboard to visualize and analyze several metrics in the automobile industry for an insurance agency. • Worked closely with the Vice President of the Automobile branch and the IT team to deliver accurate insights into the agency's performance.

- Successfully identified significant changes in key metrics over specific periods by visualizing and analyzing the data.

11/2024 – present
Algiers, Algeria

Data Scientist Intern
Djezzy ⌞
- Working on an NLP project as part of my Master's degree capstone project.
- Collaborating with stakeholders to align project objectives with practical applications.

PROJECTS

11/2023 – 05/2024

College Machine Learning Projects ⌞
Email Spam/Not Spam Classification
- Developed a machine learning model to classify emails as either spam or not spam using common algorithms such as KNN, Neural Networks, and SVM.

Voice Classification for Different Voices
- Created a voice classification system capable of classifying 5 and 10 distinct voices using Machine learning techniques including KNN, NN, and SVM.

Urdu Spoken Emotion Classification
- Designed an emotion classification model for spoken Urdu language and achieved **92%** accuracy.

Iris Recognition System
- Developed an iris recognition system using the **SIFT** method and **OpenCV** for feature extraction and comparison.
- Implemented a complete pipeline for preprocessing, feature extraction, and identification, ensuring accurate individual identification.

02/2024 – 06/2024

Football Web Scraping ⌞
- Scraped data from the **Fbref** website using Python, **BeautifulSoup** and **Pandas**.
- Extracted data for individual players from **17** professional football leagues.
- Prepared the data for future analysis of various aspects of the players.

07/2024 – 07/2027

Exploratory Data Analysis in Retail ⌞
- Conducted comprehensive exploratory data analysis on a **retail dataset**, identifying key issues like unprofitable products and excessive discounting.
- Created insightful visualizations, a dashboard and a report to effectively communicate findings and support data-driven decision-making.

12/2024 – present

Expected Goals (xG) Model Development
- Collected free **StatsBomb** data spanning the last **10** years of male competitions to create a comprehensive dataset.
- Preprocessed and cleaned the data to ensure **quality** and **consistency** across multiple competitions.
- Engineered over **28** features, including shot distance, angle, dummy variables, and player attributes such as preferred foot.
- Trained a machine learning model, attaining **89%** accuracy and a **98%** match rate with **StatsBomb's xG model**.
- Currently refining the model and drafting a research paper to document methodologies, findings, and applications.