Anas Kouri

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SKILLS

- Python (TensorFlow, Scikit-learn, Pandas, PySpark) | SQL (MSSQL, PostgreSQL, MySQL) |NoSQL (MongoDB) | VBA | MATLAB
- Azure Technologies | Databricks|Tableau | Power BI | Excel (DAX, Pivot Table, Macros, PowerQuery, Dashboards) | Dash | Plotly
- Agile Methodologies |Spark |Hadoop| BI Tools | AI/ML | Time Series Analysis | Market Analysis | Git/GitHub| French - *Native*
- Certifications: Google Data Analytics Professional Certificate |Microsoft Power BI Data Analyst Professional Certificate

WORK EXPERIENCE

NUS Consulting Group **Park Ridge, NJ**

Data Analyst *05/2023 - Present*

- Spearheaded the development and implementation of **Python/API** pipelines to automate energy rates data **ETL**, cutting analysis time by 50% and boosting operational efficiency and analytical capabilities.
- Designed a **Power BI dashboard** to streamline hedging, budgeting, and billing for natural gas and electricity, reducing forecasting errors by 20% with a detailed **5-year analysis**, improving cost optimization and decision-making.
- Developed budgeting and procurement tools to enhance cost efficiency for over **150 clients** using **Python**, **VBA**, and **Power BI**.
- Monitored daily energy trends and delivered timely hedge recommendations, resulting in over 30% savings for clients.
- Provided direct analytical support and generated impactful client-facing reports using **SQL**, **Power B**I, and **Microsoft Excel**.

Stellantis Automobile Corporation **Paris, France**

R&D Engineer - NVH (Noise and Vibration) Analysis *07/2020 – 12/2020*

- Engineered Transfer Path Analysis (TPA) to diagnose and mitigate noise and vibration issues in Peugeot, Citroën, and DS vehicles, reducing noise levels by 15% and enhancing overall vehicle comfort and performance.
- Led the engineering and measurement process, managing a team of **+ 10** technicians to build a comprehensive NVH testing setup.
- Implemented **ML/Python** predictive models (**RF**, **SVM**) to forecast NVH issues, cutting component development delays by 20%.
- Presented findings to cross-functional teams of **5+** engineers, improving **QA** and process centralization company-wide.

Liebherr Aerospace **Toulouse, France**

R&D Engineer - NVH (Noise and Vibration) Analysis *05/2019 – 10/2019*

- Conducted comprehensive vibration analysis on air conditioning systems for aircraft (**Airbus**, **Boeing**), reducing noise and vibration impact by 25% using **FFT Analysis**, **Modal Analysis**, **Siemens technologies**, **Test Lab**, **Python**, and **MATLAB**.
- Improved data accuracy by 20% by developing a pipeline to process and clean raw data from NVH sensors for detailed analysis.
- Automated ETL processes to handle NVH data for analysis, reducing manual intervention and streamlining data workflows.
- **Reported directly to the Director of R&D**: Led cross-functional teams to transform NVH data insights into strategic design improvements, reducing product development cycle time by 30% and increasing market share by 10%.

EDUCATION

Brooklyn College - CUNY **Brooklyn, NY**

Master of Science in Computer Science (3.82/4.0) *05/2019 – 10/2019*

Recipient of Rose Goldstein Memorial Scholarship

University of Poitiers **Poitiers, France**

Master of Engineering in Energy Systems and Technology *08/2017 – 12/2020*

Master's Degree in Business Management *09/2019 – 12/2020*

PROJECT EXPERIENCE

Global Energy Investment Analysis *09/2022 – 11/ 2022*

- Utilized SQL queries to gather and process energy investment data for analysis and visualization, improving data accuracy by 20%.
- Built an interactive Tableau dashboard for global energy investments, analyzing multi-year data to identify trends and changes.

Renewable Energy Analysis Web Application Developer *03/2022 - 04/2022*

- Created a Python web application using Dash and Plotly to forecast renewable energy growth and detect energy mix opportunities.
- Plotly company featured the web application on LinkedIn, highlighting innovative visualization of energy insights.

Green'Sip, Intelligent management system for waste collection *09/2017 – 06/2018*

- Invented a smart waste management system, improving route efficiency by 30% with sensor-monitored trash cans.
- Boosted user efficiency by 25% with a system recommending optimal disposal times and locations, enhancing user experience.