Anas Kouri

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LinkedIn GitHub Portfolio website

Skills

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

Professional Experience

Data Analyst, *(NUS Consulting Group)* **Park Ridge, NJ** *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 BI, and Microsoft Excel.
- Standardized and automated existing manual reports, enhancing data accessibility and stakeholder decision-making.

Research and Development Engineer, *(Stellantis Automobile Corporation)* **Paris, France** *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%.
- Developed a real-time data monitoring system for NVH parameters, leading to a 10% reduction in diagnostic time.
- Wrote technical specifications describing requirements for data movement, transformation, and quality checks in NVH management.

Research and Development Engineer, *(Liebherr Aerospace)* **Toulouse, France** *05/2019 - 11/2019*

- 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 RD: 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

MS Computer Science *City University of New York* **Brooklyn, NY** *2021-2023*
Recipient of Rose Goldstein Memorial Scholarship
MEng Energy Systems and Technology *University of Poitiers* **Poitiers, France** *2017-2020*
MS Business Management *University of Poitiers* **Poitiers, France** *2019-2020*

Projects

Global Energy investment analysis *04/2023*

- Used 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.

Green'Sip, Intelligent management system for waste collection *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.