

# Anes Motam

## Junior Data Analyst & Engineer

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[LinkedIn](#) | [GitHub](#) | [Portfolio Website](#)

### Personal statement

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As an economics graduate, I am passionate about creating value and driving better outcomes through my understanding of economic systems. Since graduating, I've come to appreciate the pivotal role data plays in driving progress and innovation in modern businesses. Over the past year, I have developed expertise in Python, SQL, and cloud computing, equipping me with the technical skills needed to contribute to data-driven organizations. As I take my first steps into the world of technology, I hope to connect with like-minded data enthusiasts and drive meaningful impact through my work.

### Technical Skills

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**Programming/Code:** Python, JavaScript, R programming language

**Cloud:** AWS, including EC2, Lambda, RDS, Cloudwatch, IAM, AWS API usage via command line and SDK

**DevOps:** Terraform, CI/CD (GitHub Actions)

**Data:** Intermediate/advanced SQL, Postgres, database modelling, normalisation, warehouse design, advanced excel skills including VBA, Power BI

**Design patterns:** Star Schema warehouse, Data Lake

**Methodology:** Agile/Scrum, Trello

### Projects

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**Northcoders final project:**

**SalesDB:** Terraform|AWS S3, Lambda, Glue, Step Function, Cloudwatch & Athena|Python|CICD

- For my final project, I collaborated with a small team to plan, implement, and deploy **Infrastructure as Code (IaC)** and **Python** programs to transform a disorganised sales database into a robust, automated **OLAP system**.
- I developed an event-driven **ETL pipeline**, incorporating **CI/CD processes** and a comprehensive test suite to ensure seamless code deployment and uninterrupted application runtime.
- In addition, I used efficient **SQL queries** to design a **star-schema database model** that facilitated efficient querying and visualization. Using **Tableau**, I created an interactive dashboard to highlight key insights.

**PowerBI Dashboard:**

- This project leverages a variety of Power BI features to create a dynamic company dashboard showcasing key business metrics like revenue, profit, product costs, and more. Interactive elements such as bookmarks, tooltips, and slicers enhance the user experience, allowing for customized drill-downs to the desired level of detail.
- The report is organized into four distinct pages: a high-level executive summary, customer insights, product analysis, and a map visualizing regional sales. Additionally, AI capabilities are incorporated to enable users to explore trends and uncover underlying factors using natural language queries.

### Experience

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**Data Engineering course – Northcoders**

**Jun 2024 – Sep 2024**

- I developed vital coding skills and learned about industry best practice for building data applications such as Test-Driven Development (TDD) and pair programming and
- Utilized SQL to query, transform, and manage datasets, integrating it with Python and the pg8000 library.
- Implemented the FastAPI framework to handle and process requests; transform internal databases to meet the needs of the user, and ensure responses are validated against specified schema.

- I designed and deployed a fully automated ETL pipeline using AWS services.
- Automated workflows using GitHub Actions and CI/CD, ensuring seamless integration and continuous deployment.

#### **Assistant Economist & Statistician – Department for Environment, Food and Rural Affairs**

**Jan 2022 – May 2024**

- Provided evidence and analytical support on a range of policy areas . I received an award of recognition for my analysis on the NAPCP and Agricultural Emissions Model.
- Independently conducted cost-benefit analyses and impact assessments, adhering to industry-standard methodologies. My analyses provided essential cost metrics that supported a series of workshops and stakeholder engagement initiatives. I effectively presented the findings of my modelling and facilitated successful follow-up communication with key stakeholders.
- Automated routine statistics publications using Reproducible Analytical Pipeline (RAP) principles and R Markdown to identify key metrics, manipulate large datasets, transform data in accordance with scientific methodology and effectively display trends.

#### **Junior Data Analyst – Leading Point**

**Aug 2021 – Dec 2021**

- Created an interactive automated dashboard using VBA programming for the marketing division. The tool facilitated the team to identify which posts were more successful with its audience, contributing to a 400% increase in followers during my tenure.
- Supported the marketing team in expanding the company's client database, adding over 5000 new customer profiles to the CRM system.
- Presented a monthly summary showcasing performance against key marketing KPIs.

#### **Freelance Tutor – MyTutor**

**Oct 2020 – Oct 2021**

- I assisted secondary school pupils with their Maths and English GCSEs and monitored their progress to ensure they meet their target grades.
- Communicated closely with school staff to identify areas of weakness and fast track progress.
- My students all achieved a pass or higher rating in GCSE Maths, with many of them initially not expected to pass at the beginning of the academic year.

### **Education**

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#### **University of Warwick – BSc Economics with Honours (1<sup>st</sup> Class)**

**Oct 2017 – Jul 2021**

- Overall performance: 73%
- In my final year, I conducted a review using survey data from Ethiopia to infer whether a causal relationship exists between natural disasters and economic outcomes such as educational attainment and household income. I effectively presented the findings of my research to a panel of academics and responded with clarity and confidence to their scrutiny and feedback, improving the overall quality and impact of my work.

#### **Queens Park Community School**

**2010 – 2017**

- A-Levels: A\*AB in Maths, Further Maths and Economics
- GCSE: 5A\*s, 4As and 2Bs (Including an A\* in Maths and an A in English Language)

### **Hobbies & Interests**

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- I have played football at a semi-professional level and also as a captain for my university's Islamic Society. In order to compete at a relatively high-level I consistently train multiple times a week which demonstrates my passion for self-improvement and progression.
- Through my volunteering at the National Algerian Centre, I worked as an event manager and logistics lead using my interpersonal skills to secure venues and catering for our events.
- One of my most proud accomplishments was starting a YouTube channel in 2023 where I created content aimed at self-improvement and fitness.