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Portfolio: <https://nawalrabia.github.io/nawalportfolio.github.io/>

Visa Status: Full-Time Graduate Visa, valid until 19 April 2026.

PERSONAL PROFILE

Data Science professional with a Master's in Data Science (Distinction) from Coventry University and over five years of experience at Accenture as an Application Development Senior Analyst. Completed a Machine Learning Researcher internship at the Centre for Factories of the Future. Skilled in Python, SQL, advanced Excel, and cloud platforms (AWS, Azure). Passionate about leveraging data analysis and machine learning to drive data-driven decisions. Seeking a role as a Data Analyst.

SKILLS

Technical Skills: Python (Pandas, NumPy, SciPy, Matplotlib, Keras, TensorFlow) | Advanced Excel (pivot tables, formulas, data restructuring) | SQL | Tableau | Power BI | Machine Learning | Cloud (AWS, Azure) | Version Control (Git, GitHub) | Web Development (HTML/CSS, JavaScript, Django, Flask, Streamlit) | ITSM | ITIL | ITOM |

Soft Skills: Strong communication | Problem-solving | Critical thinking | Adaptability | Leadership

EDUCATION

Coventry University, 01/2023-03/2024

MSc Data Science, Distinction

Ramaiah Institute of Technology, 08/2013-08/2017

Bachelor of Engineering, Distinction

RELEVANT EXPERIENCE

Centre For Factories of the Future, UK

Machine Learning Researcher Internship, 09/23-04/24

- Spearheaded the CSAM Guard project, a UK Government initiative, employing advanced data engineering to enhance the detection of Child Sexual Abuse Material (CSAM) online.
- Analysed complex, large-scale data from the Internet Watch Foundation, executing Python scripts to extract relevant features and visualizing data using Tableau and Python libraries to understand feature relevance in detecting harmful CSAM content.
- Engineered and built random forest machine learning model to predict CSAM links with 97% accuracy and integrated model to web application using django.
- Presented the project to relevant stakeholders including NGOs, the Internet Watch Foundation, web hosting, and short link service providers.
- Engaged in the process of publishing a paper to share insights and methodologies developed during the project.
- Collaborated with cross-functional teams to implement real-time monitoring and automated reporting system of CSAM to Internet Watch Foundation, significantly reducing response times and increasing overall operational efficiency by 40%

Accenture, India

Application Data Analyst, 02/18-12/22

- Optimized record management processes using Python and SQL, significantly improving data processing efficiency.
- Created and managed pivot tables, developed complex formulas, and assisted with data restructuring to streamline data workflows
- Reformatted and restructured large datasets to improve usability and accuracy in reporting.
- Enhanced system stability and reliability by implementing tool fixes with Python and executing backend corrections with SQL scripts through change management protocols.

CERTIFICATIONS

- Level 7 CMI Strategic Leadership and Management
- Python & SQL for Data Science
- Machine Learning and Statistics
- AWS Certified Solutions Architect – Associate
- Azure Fundamentals
- IT Operations and Management, ITIL

OTHER ACHIEVEMENTS

MSc Project Distinction for Enhancing Real-Time Space Weather using complex Deep Learning Techniques, utilizing 20 million data points from NASA ACE and DSCOVR Satellites. (https://nawalrabia.github.io/nawalportfolio.github.io/space_weather_forecasting.html)