

Vinu Lourdusamy

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SUMMARY

Passionate Data Analyst with a strong background in Python, SQL, and cloud technologies like Microsoft Azure. Dedicated to turning complex data into actionable insights, optimizing processes, and using machine learning and data visualization to drive impactful business decisions.

SKILLS

- **Languages:** Python, SQL, R, STATA, HTML
- **Machine Learning:** TensorFlow, PyTorch, scikit-learn, Predictive Modelling, NLP, Regression Analysis
- **Collaboration Tools:** Git, Jira, Agile (Scrum, Kanban)
- **Data Science & Analytics:** Data Modelling, Statistical Analysis, Data Profiling, Metadata Management, Data Quality Management
- **ETL/Data Ingestion:** Experience with ETL processes, data cleaning, and pipeline development
- **Data Visualization & Business Intelligence:** Power BI, Amazon QuickSight, KNIME
- **ETL & Data Tools:** Git, KNIME, Databricks
- **Cloud & Containerization:** Docker, Microsoft Azure, DevOps

WORK EXPERIENCE

EY

Digital Engineering Trainee

Belfast, UK

Oct 2024 to Present

- Developed proficiency in cloud technologies, achieving Microsoft Azure Fundamentals accreditation, improving understanding of cloud infrastructure and services.
- Applied Design Thinking and DevOps practices in collaborative projects with 20+ peers, enhancing technical skills in CI/CD pipeline development and problem-solving within a professional IT environment.

Financial Crime Analyst Trainee

April 2024 - June 2024

- Deepened knowledge in Customer Due Diligence (CDD) and risk assessment, collaborating with a group of 20 peers and receiving guidance from EY professionals to tackle real-world compliance challenges.
- Achieved Microsoft Office Specialist: Excel Associate certification, enhancing skills in Anti-Money Laundering (AML) and Know Your Customer (KYC) frameworks to improve financial crime detection and prevention strategies.

HSCNI

Data Scientist Trainee

Belfast, UK

June 2023 - Sep 2023

- Streamlined data processing by performing ETL on a 558GB healthcare dataset, enhancing prediction accuracy by 60%, which optimized resource allocation during winter months.
- Enhanced resource allocation by 20% through predictive analysis, helping the trust anticipate patient admissions and allocate healthcare staff and equipment more effectively during critical periods.
- Automated recurring tasks using Python and VBA, reducing manual workload by 30% and improving process efficiency.

Christian Medical College (Ranked 3rd in India)

Vellore, India

Data Analyst

Aug 2020 to Sep 2022

- Enhanced data accuracy by 95% through rigorous relationship checks and missing data validation, significantly improving research outcomes for 8 major projects.
- Optimized SQL queries, resulting in a 40% improvement in data retrieval times, which streamlined the analysis process and increased efficiency in handling over 500,000 records.
- Developed interactive dashboards that enhanced stakeholder visibility into project status, resulting in a 60% increase in monitoring efficiency and supporting timely decision-making.
- Automated data collection workflows, reducing processing times by 50% and enabling team members to complete data entry tasks more efficiently, saving approximately ₹50,000 in operational costs.

Indian Council of Medical Research

Bangalore, India

Data Analyst Trainee

Jan 2020 to Jun 2022

- Streamlined data validation processes, reducing data analysis time by 30% and enabling quicker insights into cancer trends, which contributed to timely public health responses.

EDUCATION

Masters in Data Analytics – Queen's University Belfast, Northern Ireland, UK
2023

Sep 2022 - Sep

Relevant Coursework: Big Data, Applied Machine Learning, Python for Data Science, Advanced Statistics with R

Masters in Biostatistics – SRM University, Chennai, India

Aug 2018 - July 2020

B.Sc. in Mathematics – Sacred Heart College – Vellore, India

July 2015 - April 2018

CERTIFICATION

- **Microsoft Office Specialist: Excel Associate (Microsoft 365 Apps)**
- **AZ-900: Microsoft Azure Fundamentals Certification**

References available upon request