

JIGAR PATEL

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Irish Immigration Status: Stamp 1 (Critical Skills)

Data Analyst

Analytically driven Data Analyst with an MSc in Data Science and a proficiency in **problem solving** and Python. Possesses a strong foundation in quantitative analysis and statistical modelling. Skilled in creating **dynamic visualizations and dashboards** to communicate actionable insights to both technical and non-technical stakeholders. Adept at collaborative problem-solving and leveraging a diverse technological skillset to extract meaningful patterns from complex data sets.

TECHNOLOGICAL SKILLS

Python • Matplotlib • SciPy • GitHub • PowerPoint • MySQL • **Tableau** • Pandas

SQL • dplyr • TensorFlow • Scikit-Learn • **Streamlit**

Excel • PyTorch • Keras • **R Programming**

AREAS OF EXPERTISE

Interpersonal Skills • **Data Visualisation** • **Data Structures** • **Machine learning (ML)**

Collaborative • Data Analytical Skills • **Algorithms** • Logical Thinking • **Pivot Tables**

Forecasting • **Creative thinking** • **Statistics** • Statistical Analysis • Verbal Communication

Problem-solving • **Attention to Detail** • Team Worker • Communication skills

PROFESSIONAL EXPERIENCE

Data Analyst

Mater Misericordiae University Hospital | *Hybrid* Dublin, Ireland

Jan 2024 – present

- Develop and maintain comprehensive KPI reports (monthly, quarterly, bi-annual) using Python and various dashboard tools such as Streamlit.
- Implement machine learning models for classification of skin lesions, enhancing diagnostic accuracy and patient outcomes.
- Utilize Python for data extraction, cleaning, and transformation to ensure high-quality data for analysis.
- Leverage advanced statistical techniques and predictive analytics to identify trends and inform strategic initiatives.
- Ensure data integrity and security while managing large datasets from various sources.
- Present complex data findings in a clear and concise manner to **non-technical** audiences, facilitating informed decision-making.

Data Analyst

CQZP Ltd | *Remote* Dublin, Ireland

Mar 2022 – Dec 2023

- Developed machine learning models to predict customer purchasing behaviour, achieving more than 80% accuracy rate, and increasing targeted marketing effectiveness.
- Implemented pricing optimization models, resulting in a 15% increase in revenue by optimizing product pricing strategies.
- Created interactive data visualizations and dashboards using libraries like Matplotlib, Seaborn, and Tableau to communicate key insights to both technical and non-technical stakeholders.
- Developed predictive models to forecast demand for various product lines, resulting in a 12% reduction in overstocked items and a 10% increase in revenue.

Data Scientist (*Internship*)
Orcawise | Dublin, Ireland

Jul 2022 – Oct 2022

- As a member of a **21**-person Natural Language Processing team, leveraged data analysis and machine learning techniques in **Python** to identify customer buying signals, enabling businesses to optimise sales and payments' process and increase profits by up to **7% from last year** with an estimated revenue of **\$7.7M**.
- Specialized in transforming the data into user-friendly **visualization** to give business users a complete view of their Business using **Tableau**.
- Developed and executed advanced **SQL queries**, including **Common table expressions**, **Sub Queries**, and **Window Analytical Functions**, Fined-tuned SQL queries for maximum efficiency and performance using SQL profiler to solve long running queries.

Data Analyst
IAPT (Indian Association of Physics Teachers) | Mumbai, India

April 2020 – June 2021

- Assigned to teach and tutor concepts of Physics using Python, including orbital simulation, model building, **K-means clustering** and, statistical methods for **regression**, and large **unstructured** Data Processing using **Scikit-Learn**, **SciPy**, and **TensorFlow** in Python.
- Conducted exploratory data analysis and identified trends: Performed in-depth exploratory data analysis, generated, and tested working hypotheses, leading to the discovery of key trends and relationships. These insights contributed to a **23%** improvement in strategic decision-making.

EDUCATION

Master of Science in Data Science and Analytics—First Class Honours (1.1)

Received Scholarship for Academic Excellence

Thesis: Mapping Aerial Images into Maps using CycleGAN (Machine learning models)

Maynooth University (2021 - 2022)

Bachelor of Science in Physics—First Class Honours (1.1)

Mumbai University (2017 - 2020)

PROJECTS

Identifying weather changes – Visualizing and analysing complex weather data using SQL, Python. Interpreting major cause of air pollution in certain cities. ([GitHub](#))

Pulse Width Algorithm – Visualizing complex data using Python and identifying the time period between each pulses. ([GitHub](#))

Auto-Encoders – Swapping and recognizing facial image from one domain to another using ResNet and deep learning architectures. ([GitHub](#)).

Generative Models (CycleGAN) – Transforming Images using Generative Machine learning models. ([GitHub](#))

Data Structures and Algorithms – Implementing and creating efficient algorithms to reduce computational complexity using OOP in Python and publishing the package on **pip** for public use. ([GitHub](#))