

Vyom Khanna

Data, BI & MI Analyst

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PERSONAL PROFILE:

Data Analyst with expertise in Data Analysis, Business Intelligence, and MI Reporting, supported by an MSc in Data and Decision Analytics. Proficient in SQL, Python, Power BI (DAX), Qlik, and Excel for data extraction, transformation, visualisation, and tailored reporting. Possess a strong foundation in Machine Learning concepts and a proven track record of delivering actionable insights across various industry projects. Hold knowledge of UK GDPR/DPA 2018, ensuring data-handling compliance. Received a Letter of Recommendation (LOR) for excellent work from a previous client. Adept at managing time, communicating effectively, and quickly adapting to new challenges, with a commitment to continuous learning and professional growth.

SKILLS:

- **Tools & Technologies:** SQL, Excel, Power BI, QlikSense, Python, MS Access, AWS, Azure, scikit-learn.
- **Data Analysis & Visualisation:** Proficient in SQL, Excel (Pivot Tables, VLOOKUP, INDEX-MATCH, Charts), Power BI, and QlikSense for analysing and visualising complex datasets.
- **Database Management:** Skilled in querying and managing data from relational databases and data warehouses using SQL.
- **Cloud:** Familiar with cloud platforms like AWS and Azure for data storage, computing, and deploying analytics solutions.
- **Machine Learning:** Basic knowledge of ML concepts, including data preprocessing, model building, and evaluation using Python libraries such as scikit-learn and pandas.
- **Automation & Reporting:** Expertise in automating reports and processes using SQL, Python and Qlik.
- **ETL Processes:** Experience in extracting, transforming, and loading (ETL) data to enable accurate analysis and reporting.
- **Methodologies:** Familiar with Agile and Waterfall methodologies for gathering business scope and delivering solutions.

RELEVANT WORK EXPERIENCE:

Sales & Insight Assistant | Poundland & Dealz, Southampton, UK | Apr 2024 – Present

- Prepared and monitored weekly, and monthly sales reports, identifying underperforming products and recommending actionable solutions.
- Created Tableau dashboards to present actionable customer insights to the management team, improving strategic decision-making.
- Participated in weekly meetings to discuss store performance and customer preferences, providing input based on observations at checkout.

Business Intelligence Engineer (On-site) | Team Computers Pvt Ltd, Gurgaon, India | Sep 2021 – May 2023

- Created interactive dashboards in QlikSense and Power BI by analysing raw data from databases and data warehouses using SQL and Python, improving decision-making efficiency by 30%.
- Gathered business requirements from stakeholders using Agile and Waterfall methodologies and presented KPIs and trends through dashboards, improving business insights delivery by 25%.
- Automated over 100 daily reports for stakeholders and B2B clients, reducing manual effort by 70% and improving report delivery efficiency.
- Performed ETL processes using SQL, Python, MS Excel, QlikSense, and Power BI to deliver ad-hoc analyses, addressing business needs and driving strategic decisions.
- Enhanced SQL, Power BI DAX queries, and Qlik ETL models, reducing data loading time by 3 hours and achieving 95% data accuracy.
- Designed incentive reports aligned with performance goals, driving a 15% increase in quarterly sales productivity.
- Trained junior developers and interns in data analysis, SQL optimisation, Python automation and Power BI dashboard creation fostering a skilled and efficient team.
- Collaborated closely with the Head of Claims to define project objectives and ensure alignment with business goals.
- Coordinated with the IT team to optimise server and data warehouse performance, reducing data retrieval times by 20% and enhancing system efficiency.
- Conducted root cause analysis to identify factors influencing business performance and proposed data-driven solutions for continuous improvement.
- Utilised MS Excel features such as pivot tables and VLOOKUP for quick data validation, ad-hoc analysis, and detailed reporting, complementing automated QlikSense solutions to address immediate business needs.

Junior Data Analyst | Nipa International, Gurgaon, India | Apr 2021 – Aug 2021

- Extracted and cleaned production data using SQL, enabling detailed analysis of manufacturing trends and reducing data processing time by 20%.
- Developed cost-saving reports using Excel and pivot tables, presenting actionable insights that drove a 12% reduction in utility expenses.
- Designed and delivered performance reports using Excel and SQL, tracking key metrics like production efficiency, downtime, and defect rates, leading to a 15% improvement in process monitoring.
- Monitored sales trends and B2B purchasing behaviour, providing actionable insights that increased upselling opportunities by 12%.

ACADEMIC PROJECT:

Python: Predicting London Bike Usage Using Machine Learning | 06/2024 - 08/2024

- Developed a predictive model to optimise London's bike-sharing system using Python. Conducted data analysis, and geospatial mapping, and built machine learning models to forecast demand, enhancing resource allocation and efficiency.

Power BI: Data Analytics for Bank X | 02/2024 - 04/2024

- Utilised Power BI to create over 20 visualisations, identifying key sales trends, product performance metrics, and regional data insights. Proposed five strategies to improve data quality and governance, enhancing decision-making processes. Delivered three actionable recommendations to optimise sales and reduce product returns, contributing to a 15% increase in operational efficiency and supporting strategic goals.

SQL: Healthcare Analytics | 02/2024 - 04/2024

- Optimised a SQL database for hospital staff shift allocation, designing queries to analyse schedules and work hours, resulting in an estimated 25% reduction in conflicts.

Research and Presentation: Operation Research and Data Analytics in Healthcare | 03/2024 - 05/2024

- Conducted and presented a literature review on "The Accounting, Budgeting, and Fiscal Impact of COVID-19 on the United Kingdom," focusing on data analytics and operation research and its role in healthcare operations. Analysed financial and operational implications of the pandemic on the UK's healthcare system, highlighting the importance of data-driven decision-making in managing healthcare resources during the crisis.

Python: Dijkstra Algorithm | 12/2023 - 01/2024

- Used Python and Dijkstra's algorithm to create a tool that helps commuters find the optimal paths between Transport for London (TFL) stations. By modelling stations as nodes and connections as edges weighted by time or fare, the tool efficiently calculates the best routes. Users can optimise for time or fare, aiding in informed travel decisions. The tool was praised for its accuracy and usability.

EDUCATION:

University of Southampton | Southampton, UK | Sep 2023 – Sep 2024

Masters of Science – Mathematics - Data and Decision Analytics (Merit)

Key Modules: Data Analytics, Data Science Techniques of Python, Snowflake, Statistical Computing for Data Science, Machine Learning, SQL, Power BI Data Visualisations, and Deterministic Methods for Data Science

SRM Institute of Science and Technology | Chennai, India | Jul 2016 – Dec 2020

Bachelor of Technology – Mechanical Engineering