

Vyom Khanna  
Data, BI & MI Analyst

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PERSONAL PROFILE:

Data Analyst with expertise in **Business Intelligence, Data Analysis, and MI Reporting**. Skilled in **SQL, Python, Power BI (DAX), Qlik Sense, Excel, and ETL** processes, with a **solid foundation** in **Machine Learning** concepts. Proven track record of **delivering actionable insights** across **retail, insurance, and manufacturing sectors**. Knowledgeable in **UK GDPR/DPA 2018** for compliant data handling. Experienced in **project coordination, stakeholder communication, and time management**. Regularly **leverages ChatGPT** and other LLMs to **accelerate technical learning, enhance efficiency**, bridge potential gaps, and stay current with evolving tools and methodologies. **Adaptable, detail-oriented, and committed to continuous improvement**.

RELEVANT WORK EXPERIENCE:

MSc Mathematics Analytics Project Developer | University of Southampton, Southampton, UK | Sep 2023 – Sep 2024

- Predicting TFL Bike Usage Using Machine Learning:** Conducted Exploratory Data Analysis (EDA) using Python libraries and developed a predictive model; optimising bike-sharing resources and leading to an estimated 20% improvement in bike availability.
- Geographic Sales Analytics:** Developed 20+ Power BI visualisations that identified sales trends by region and product, leading to an estimated 15% increase in retail sales.
- SQL Hospital Staff Shift Allocation Database:** Led the development and management of an SQL database for hospital staff shift allocation, designing and executing complex SQL queries to analyse staff scheduling and optimise work hours, estimating a 25% reduction in scheduling conflicts.
- Revenue Management:** Developed pricing optimisation models for Carnival Cruise Line by analysing market trends and demand patterns, resulting in improved pricing strategies and enhanced revenue management.

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

- Prepared** and monitored **weekly, and monthly sales, SKU and customer reports**, identifying **underperforming products** and recommending actionable solutions.
- Assisted in creating **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.

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

- Created interactive dashboards in **QlikSense** and **Power BI** by analysing raw data 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.
- Optimised **SQL, Power BI DAX** queries, **Qlik** and **Alteryx ETL pipelines**, 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, SSRS 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 ETL performance and implemented variables and safeguards.
- Utilised **MS Excel** features such as **pivot tables** and **VLOOKUP** for quick **data validation, ad-hoc analysis, and detailed reporting** to address immediate business needs.
- Transformed data using **SQL, Alteryx** and **Qlik Sense** integrating data from various sources into data warehouses.

Junior Data Analyst | Nipa International, Gurgaon, India | Aug 2020 – Aug 2021

- Extracted** and **cleaned** manufacturing data from **ERP** using **MySQL**, for **trend analysis** and reducing data processing time by **20%**.
- 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.
- Identified 25 lakhs INR** in potential annual savings by analysing raw material usage and waste trends.
- Assisted in reducing audit preparation time by **30%** through **standardised reporting templates**

SKILLS:

- SQL:** Windows Functions, CASE, Joins, Subquery, Partition by, Aggregate Function, ETL, CTEs, Limit, Rank, Offset, DBT
- Python:** NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn
- R:** ggplot2, dplyr, caret, tidyr
- Power BI:** DAX, Power Query, Drill-through, Slicers
- Qlik Sense / QlikView:** Set Analysis, NPrinting, , Applymap, QMC
- Excel:** Pivot Tables, VLOOKUP, Power Query, Solver, VBA, Macros
- Scikit-learn:** Linear Regression, Random Forest, KMeans
- ETL:** Alteryx, SQL, Python
- Project Management:** Trello, Agile Methodology, Waterfall Methodology
- Reporting:** Excel, Power BI, Qlik, SSRS
- Alteryx:** Workflow Automation, Predictive Analytics, Geospatial
- Machine Learning and Statistical Analysis:** A/B and Hypothesis Testing
- AI and LLM:** ChatGPT, CoPilot
- Cloud:** Real-time Analytics, User Behaviour Analysis, Audience Insights
- Soft Skills:** Communication, Stakeholder Management, Attention to detail, Critical Thinking, Analytical and Numeric Skills, Time management, Organisation and Structure

RELEVANT PROJECTS:

Pendency & Productivity Report

- Developed a Claims Pendency Report using SQL, EDA, and Qlik dashboards to track unresolved claims, analyse ageing trends, and improve processing efficiency. Automated insights using Nprinting that reduced average daily pending claims from 80K to 38K, increasing productivity by 52% and accelerating claim resolution.

Monthly Travel Insurance Dashboard

- Designed an interactive Power BI dashboard to track travel insurance sales, renewals, premium revenue, and claims efficiency. Automated insights led to a 15% increase in customer retention and 20% faster claim settlement, optimising decision-making and business performance.

Git Portfolio

- Developed a Career portfolio website using HTML, CSS, and JavaScript with the assistance of ChatGPT, showcasing my experience and all projects. Integrated Google Analytics and Tag Manager to learn & gain insights into web traffic and analytics. Currently exploring audio integration to enhance the site's functionality further.

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