

Vyom Khanna  
Data, BI & MI Analyst

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PERSONAL PROFILE:

Data enthusiast with past 4.5 years dedicated to **Business Intelligence, Data Analysis, MI Reporting and ML**. Skilled in **SQL, Python, Power BI, 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**, received a **Letter of Recommendation** from the client for the high-quality of work.

SKILLS:

<b>Programming Languages:</b> Python, R, SQL	<b>AI &amp; LLM Tools:</b> ChatGPT, Copilot
<b>Machine Learning:</b> Linear Regression, Logistic Regression, Random Forest, K-Means Clustering, A/B Testing, Hypothesis Testing, Predictive Analytics	<b>Google Analytics:</b> Real-time Analytics, User Behaviour Analysis, Audience Insights, GitHub
<b>Data Engineering &amp; ETL:</b> Alteryx, SQL, Python, Power Query, Workflow, Automation, Geospatial Analysis, DBT	<b>Project Management Tools:</b> Trello, Agile Methodology, Waterfall Methodology
<b>Business Intelligence &amp; Reporting:</b> Power BI, Qlik Sense / QlikView, Excel, SSRS, Tableau	<b>Soft Skills:</b> Communication, Stakeholder Management, Critical Thinking, Analytical & Numeric Skills, Attention to Detail, Time Management, Organisation and Structure
<b>Cloud and Warehouse:</b> Azure, Snowflake	<b>MS Office:</b> Outlook, PowerPoint

RELEVANT WORK EXPERIENCE:

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

- 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* Apr 2024 – Present  
**Poundland & Dealz, Southampton, UK**

- 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 Care Health Insurance)* Sep 2021 – May 2023  
**Team Computers Pvt Ltd, Gurgaon, India**

- 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.
- 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.
- Designed** and **automated** cross-functional **daily/MTD** business reports for **MD**, integrating **KPIs across** departments. Enabled real-time decision-making with linked data models and UAT-approved dashboards.
- Gathered business requirements from stakeholders using **Agile** and **Waterfall methodologies** and presented **KPIS** and **trends** through dashboards, improving business insights delivery by **25%**.
- Transformed data using **SQL, Alteryx** and **Qlik Sense**, integrating data from various sources into **data warehouses**.
- 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.

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

- 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**.

EDUCATION:

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

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** Jul 2016 – Dec 2020  
**Southampton, UK**

Bachelor of Technology - Mechanical Engineering