

# ABHINAV MALIK

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Project Portfolio: <https://abhi0824.github.io/>

## PROFILE

Results-driven BI Developer with 2 years of experience translating complex data into actionable insights. Proficient in SQL, Power BI, Tableau, Python, ETL, and data warehousing. Skilled in optimizing workflows, creating intuitive dashboards, and conducting in-depth analyses. Collaborative team player with a passion for leveraging technology to solve business challenges. Proven track record of delivering high-quality BI solutions. Check out my projects on GitHub!

## KEY SKILLS

- **Visualization Tools:** Proficient in Power BI, Tableau, and QlikView for dynamic data visualization and analysis.
- **Excel, VBA:** Skilled in Excel for data processing, financial modeling, and automation using VBA.
- **SQL:** Experienced in SQL for data cleaning, querying, and database management.
- **Programming:** Proficient in R, Python, and MATLAB for statistical analysis, machine learning, and data manipulation.
- **Data Engineering:** Familiar with Databricks, Azure Data Factory, and AWS Glue for data processing, transformation, and ETL workflows.
- **Statistical Analysis:** Skilled in conducting statistical analysis to derive meaningful insights and make data-driven decisions.
- **Analytical Skills:** Strong problem-solving abilities with a focus on quantitative analysis.
- **MS Office Suite:** Proficient in Microsoft Office Suite for documentation, including reports, presentations, and correspondence.

## EDUCATION

### Master of Applied Computing

Sep 2022 - April 2024

University of Windsor, Windsor (Ontario)

- Advanced Database Technologies
- Business Intelligence and Data Visualization
- Financial Computing
- Cloud Computing for Data Analysis

## PROFESSIONAL EXPERIENCE

### Business Intelligence Reporting (Co-op)

Sept 2023 - April 2024

FGF Brands, North York

- Spearheaded a project to create a dashboard for monitoring and identifying insights or opportunities in a manufacturing unit.
- Integrated data into Power BI, creating multiple measures and calculated columns to produce a dashboard highlighting performance metrics and success rates, leading to a 20% reduction in changeover process time.
- Advised stakeholders on identifying bottlenecks using comprehensive failure event data, resulting in a 10% reduction in downtime.
- Optimized frequently bottlenecking or resource-intensive data models, leading to a 30% improvement in manufacturing cycle efficiency and saving the company approximately \$500,000 in operational costs in the previous year.
- Developed and implemented automated query monitoring for manufacturing processes, resulting in a 50% reduction in response time to address issues and ensuring timely intervention to prevent disruptions.
- Developed conceptual and logical data models to capture business requirements and define data structures.
- Utilized PySpark for efficient data processing, transformation, and analysis.
- Designed and implemented ETL pipelines to extract data from various sources, transform it according to business rules, and load it into target databases.

### Associate Software Analyst

Aug 2021 - Jan 2022

Bosontech IT Services, India

- Conducted data acquisition, cleaning, and preprocessing to ensure data integrity and quality assurance for subsequent analysis.
- Applied advanced statistical methods and analytical techniques, such as hypothesis testing and regression analysis, to extract actionable insights from large-scale datasets.

- Executed dynamic ticket pricing strategy for event organizing company, driving a 25% revenue increase through demand-based pricing models.
- Initiated and implemented a customer loyalty program, leveraging data analytics and market research, resulting in a 15% increase in customer retention and repeat business.

#### **Business Analyst**

Feb 2021 - May 2021

JCB235 Entertainment, India

- Conducted data acquisition, cleaning, and preprocessing to ensure data integrity and quality assurance for subsequent analysis.
- Applied advanced statistical methods and analytical techniques, such as hypothesis testing and regression analysis, to extract actionable insights from large-scale datasets.
- Executed dynamic ticket pricing strategy for event organizing company, driving a 25% revenue increase through demand-based pricing models.
- Initiated and implemented a customer loyalty program, leveraging data analytics and market research, resulting in a 15% increase in customer retention and repeat business.

## **PROJECTS**

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#### **Olympic Medal Prediction Model**

Jan 2023- May 2023

University of Windsor, Windsor, ON • Windsor, ON

- Developed a model to predict medal counts in Olympics based on economic and performance factors.
- Optimized data integrity by cleaning Olympic Medal dataset, resolving discrepancies, and addressing limited data availability, optimizing accuracy of Olympic Medal Prediction Model.
- Applied exploratory data analysis techniques, including descriptive statistics, data visualization, correlation analysis, and outlier analysis, to gain comprehensive insights into Olympic Medal dataset.
- Employed advanced feature engineering techniques to normalize data and prevent dominance in predictive model, resulting in improved accuracy and reliable predictions for Olympic Medal Prediction Model.
- Developed regression models (decision tree, linear, random forest, polynomial, gradient boosting, support vector) based on project requirements and dataset characteristics.
- Discovered insights on athletes in 21-25 age group secured over 70% of total medal count across multiple Olympic events, showcasing critical role of nurturing young talent for sustainable success.
- **Key skills: Python, Data Cleaning, Data Exploration, Feature Engineering, Machine Learning, Model Validation**

#### **COVID Vaccination Dashboard**

Sept 2022- Dec 2022

University of Windsor, Windsor, ON • Windsor, ON

- Developed a dynamic COVID vaccination dashboard using Tableau, providing real-time insights into global vaccination progress.
- Established key performance indicators (KPIs) to evaluate the number of partially and completely vaccinated individuals, facilitating the tracking of vaccination rates across 100+ countries.
- Utilized calculated fields to compute share of partially immunized individuals over total population, offering a comprehensive view of vaccination coverage with a granularity of 0.1% precision.
- Visualized vaccination trends and GDP correlation, with GDP per capital explaining 63% of vaccination rate variation.
- Delivered interactive filters and parameters, empowering users to explore data by selecting specific countries, continents, and date ranges.
- Exercised a dual-axis chart to compare partially and completely protected with vaccines populations, streamlining progress evaluation for enriched insights.
- **Key skills: Tableau, Data Manipulation, Data Interpretation, Statistical analysis, Trend analysis, Data Visualization**

## **EXTRA-CURRICULAR**

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Store Associate, Walmart (Windsor)

Jan 2023- May 2023