Kshitiz Kharel

2028 Blue Rock Dr, Tampa, FL 33612 (813) 205-0239

Email Portfolio Website

EDUCATION

University of South Florida, Tampa, FL   **Aug 2020-May 2023**

Master of Science in Business Analytics and Information Systems **(CGPA – 3.77)**

SKILLS

Technical Skills

Programming Languages: Python, R

Databases: MSSQL, Oracle, MYSQL

Tools: R Studio, Tableau, MS Excel, AzureML, Power BI, DAX**,**
    Visual Studio, Jupyter Notebook, PySpark

Libraries: Numpy, Panda, ggplot2, scikit-learn

Cloud Platform: AWS services such as Redshift, S3, QuickSight, EC2, RDS

Interpersonal Skills

Quick Learner, Strong communication and Analytical skills, Attention to detail, Problem solving.

ACADEMIC PROJECTS

Console Games Database
- Used Python to Web Scrape, merge data from various sources and clean the data to create a game database with data integrity constraints.
- Applied advanced SQL techniques, including joins, aggregations, and window functions, to perform extensive data analysis on the game database.
- Implemented performance tuning strategies, such as indexing, resulting in 8% reduction in performance costs.
- Developed a classification model using logistic regression and neural networks to analyze game prices, enhancing the predictive accuracy of the model by 3%.

Apartment Management Data Warehouse
- Designed Enhanced Entity Relationship Diagram, Relational Schema, and schemas/tables for an OLTP database using SQL Server Management Studio (SSMS).
- Built an efficient OLAP data warehouse on Amazon Redshift using STAR schema data modelling, improving query performance by 30%.
- Developed an ETL process connecting SSMS to Jupyter Notebook, enabling efficient data extraction, transformation, and loading into an S3 bucket.
- Implemented AWS Glue job to execute a Python script, automating schema creation and data export from SSMS to Redshift data warehouse, reducing manual effort.

Online Retail Promotions - A retail analytics problem project report
- Conducted analysis to determine the potential influence of various predictors on the target variable.
- Developed three top-performing multivariate regression models using R-studio incorporating multiple interactions among the predictors.
- Assessed the regression assumptions (LINE) and identified the best model that met all the necessary criteria.
- Analysed the impact of different predictors on the target variable and reported the statistically significant metrics affecting the dependent variable from the best model.

WORK EXPERIENCES

Field Data Analyst | Helvetas Swiss Inter Cooperation   **Sep 2018-Sep 2019**
- Developed 10+ Power BI dashboards and identified KPIs, resulting in a 70% placement rate for 6000+ youths in the industry.
- Conducted extensive data analysis to identify areas for improvement, leading to a significant 25% improvement in training performance.
- Utilized SQL queries for data extraction and analysis, offering recommendations that contributed to a 20% increase in client retention rate through revised strategies.

Data Associate/Finance | Machnet Technologies Inc.   **Feb 2018 – Sep 2018**
- Identified discrepancies in the company's internal system and client's system using VLOOKUPs, resulting in a 20% decrease in pending cases and improved operational efficiency.
- Created Pivot Tables integrating multiple Excel sheets using Power Query for client's daily transactions, reducing reporting time by 40% and enabling quick analysis of key financial metrics.