KHUSHI SARASWAT VIKASH

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PROFILE

Results driven Data Analyst with experience transforming complex, large-scale datasets into actionable insights that support data-driven decisions. Hands-on experience analyzing high dimensional data to uncover key patterns, drivers, and outcomes across research and industry projects. Proven ability to deliver clear, reliable insights through structured analysis and data storytelling.

PROFESSIONAL EXPERIENCE

Data Analyst, *University of Illinois Chicago | Chicago, IL*   **July 2025 – Present**
- Analyzed 5,900+ refugee records using Python statistical methods to identify key factors influencing employment outcomes.
- Built and validated logistic regression models in Python with feature selection to quantify factor impact, achieving ~76% accuracy and isolating the most influential predictors.
- Produced Power BI dashboards visualizing demographic trends and Python-based model outputs to improve insight accessibility and interpretation for the Department of Disability & Human Development.

Data Analyst, *CCC Intelligent Solutions | Chicago, IL*   **January 2025 – May 2025**
- Implemented an end-to-end AI data generation pipeline using Stable Diffusion integrated with LoRA techniques to synthesize multi-damage vehicle images for insurance claims automation.
- Performed hands-on data preparation and feature engineering by curating 5K+ images down to 2K+ high-quality image–caption pairs, removing duplicates and invalid damage cases to improve model training reliability.
- Engineered rapid model inference by supporting a workflow that generated realistic damage-specific vehicle images from text prompts within 2–3 seconds, expanding training data used for automated claims model development.

Associate Analyst, *Virtusa Consulting Services | Hyderabad, India*   **May 2022 – July 2023**
- Developed and migrated end-to-end ETL workflows from IBM DataStage to Informatica IICS, streamlining enterprise data integration across an AWS-hosted data warehouse supporting life insurance operations.
- Executed data profiling, mapping, transformation, and validation in collaboration with migration leads, improving post-migration data accuracy by ~30% and ensuring consistency across critical reporting datasets.
- Optimized IICS workflows and implemented scheduling, lineage documentation, and security controls, reducing ETL runtime by ~25% while strengthening governance and compliance with internal audit standards.

Data Analyst Intern, *Virtusa Consulting Services | Hyderabad, India*   **January 2022 – April 2022**
- Architected a SQL-based backend database for a .NET web application, optimizing schema design and query performance.

PROJECTS

Intrusion Detection System for IoT Networks (Machine Learning, Python)
- Constructed an intrusion detection system using a large-scale IoT dataset (123K records, 85 features), applying feature encoding, scaling, correlation analysis, and SMOTE-based class imbalance mitigation to prepare data for supervised learning
- Trained and benchmarked Logistic Regression, KNN, Naïve Bayes, SVM, and LDA models using F1-score; KNN and Logistic Regression achieved up to 99.5% accuracy and a 1.00 F1 score under noisy conditions.

Telecom Customer Churn & Retention Analysis (Power BI, Excel)
- Created dual Power BI dashboards on 7K+ telecom customer records by integrating Power Query transformations and DAX measures to assess churn (26.5%), retention (73.5%), and tenure-based loyalty drivers.
- Examined customer behavior using dynamic filters by tenure, contract type, service category, and demographics to identify high-risk churn segments and service-level drivers. Generated actionable insights to inform targeted retention strategies.

SKILLS/ CERTIFICATIONS

Programming & Analysis: Python , SQL (Joins, CTEs, Window Functions, Stored Procedures), R, MS Excel
Business Intelligence & Visualizations: Power BI (Data Modeling, DAX, Power Query, KPI Dashboards), Tableau
Database & Cloud Platforms: AWS, Azure, Snowflake, MongoDB, NoSQL Databases, ETL Pipelines
Certifications: Microsoft Azure Fundamentals (AZ-900), Microsoft Power BI Data Analyst (PL-300)

EDUCATION

University of Illinois Chicago   **August 2023 – May 2025**
Master of Science in Business Analytics, GPA: 3.88/ 4.0   Chicago, IL
Vasireddy Venkatadri Institute of Technology   **June 2018 – June 2022**
Bachelor of Technology in Computer Science and Engineering, CGPA: 7.3/10.0   Guntur, India