

# Snehith Reddy Kathi

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## WORK EXPERIENCE

### Technical analyst - MysapGroup LLC

Dallas, TX | July 2023 - May 2024

- Spearheaded financial analysis, examining 8M+ records in Enterprise **data warehouse (EDW)**, identifying trends, and achieving **\$750K** in cost **savings** with 15% reduction in operational expenses.
- Integrated financial data from 5 sources using **ETL** processes, ensuring 99.9% accuracy for 500K+ transactions.
- Developed scalable **financial model** and **T-SQL** schemas, employing data preprocessing includes **handling missing data** and **outliers** to enhance **data quality**, reduce **query latency** by 40%, and improving forecast accuracy for precise budget planning.
- Conducted in-depth Exploratory Data Analysis (**EDA**) using **statistical** methods, uncovering 3 critical budget allocation trends, informing resource allocation, driving business growth, and reducing costs by 15%.
- Created an interactive **Tableau dashboard**, enabling stakeholders to explore **KPI** metrics and enhancing decision-making by 30%.
- Identified **budget savings** via data-driven **reporting**, that reduced monthly expenses by **31%**, saving **\$250K** annually.

### Research Assist Intern - UTSA IoT Security Lab

San Antonio, TX | Nov 2022 - May 2023

- Deployed custom Detectron2 model with **PyTorch** for Autistic Behavior Detection, achieving **86.37%** accuracy on a 15TB unstructured pilot program dataset, **reducing** manual review time by **50%**, and facilitating early diagnosis and intervention.
- **Optimized** data collection efficiency by **30%** using secure **FTP** protocols while migrating to UTSA cloud server, ensuring **data integrity** and **reliability** for model training and **validation**.
- Accelerated model development with **python** libraries, streamlining **data preprocessing** and feature engineering, enabling faster prototyping and iteration.
- Reduced training times by **40%** for pre-trained **CNN models** on the UTSA cloud server, while fine tuning model performance.
- Conducted comprehensive analysis on structured predicted data using **SQL server** and Tableau while applying **normalization** techniques, **documenting** detailed insights to the clinical team.
- **Collaborated** with clinical members using **Agile scrum** ceremonies, ensuring project aligns with **healthcare** needs.

### Data Analyst - Gates Institute of Management Sciences

Vijayawada, India | Sept 2020 - Aug 2021

- **Analyzed** enrollment trends and tuition revenue, resulting in increase of **34** student enrollments using **Excel** and **SQL**.
- Assisted with **team** member in **predictive analysis** to forecast enrollment trends, informing institutional decision-making.
- Implemented high **data quality checks** and optimized **SQL** queries, for **data validation**, **cleaning** and **transformation**
- Derived insights using **advanced SQL** and recommended strategies to grow program tuition revenue by **10%**.

## PROFESSIONAL PROJECTS

**Medicare Vision Claims Analysis:** Designed a dashboard and executed ETL processes using Azure Data Lake and Azure Data Factory, processing 57.3 million Medicare vision claims records, improving data quality, streamlining data workflows, and optimizing storage to reduce operational time by 25%; enhanced data accessibility and query performance for trend analysis in eye health and service utilization through comprehensive SQL validation and cleansing.

**Ecommerce page Testing:** Developed and implemented an A/B testing framework to analyze the impact of different web page designs on user engagement and conversion rates using Python and SQL; streamlined data collection and processing with Pandas and NumPy, achieving a 20% increase in testing efficiency and providing actionable insights that improved conversion rates by 15%.

**Real Estate Sales Analysis:** Conducted comprehensive real estate market analysis by processing and analyzing over 1 million sales records using SQL, Excel, and Tableau; developed interactive dashboards and visualizations to identify key market trends and performance indicators, leading to strategic recommendations that improves sales profits by 12%.

## SKILLS & CERTIFICATIONS

**Programming Languages:** Python, MS-SQL, T-SQL, PyTorch, Linux commands, GitHub

**Databases:** MySQL, PostgreSQL, Snowflake

**Data Analysis Tools:** MS-Excel, Tableau, Pandas, Matplotlib, Seaborn, NumPy, Power BI, SSIS, Azure Cloud

**Certifications:** Data Analyst, SQL for Data analytics, Tableau Essentials, Introduction to python

## EDUCATION

**University of Texas at San Antonio** | GPA: 3.72 | Honors: *Departmental Scholarship Awardee*

Master of Science, Electrical Engineering (Specializing in Data-Driven Analysis and Computation).

San Antonio, Texas

**Amrita Vishwa Vidyapeetham** | GPA: 3.86

Bachelor of Technology, Electronics and Communication Engineering

Coimbatore, India