

# KAUSHIK PARVATHANENI

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## PROFESSIONAL EXPERIENCE

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### Hoosier Community Network | *Data Analyst*

April 2024 - Present | Bloomington, Indiana

- Led end-to-end data management initiatives for small companies in Indiana. Collaborated with stakeholders to customize workflows, ensuring adherence to industry standards and optimizing datasets for actionable insights.
- Created a suite of custom Tableau reports that converted raw data into insightful narratives for executive leadership, resulting in a 40% decrease in data interpretation time during quarterly reviews.
- Architected scalable data pipelines on AWS (S3, Redshift, EC2), performed efficient ETL tasks, and deployed secure data storage solutions, ensuring compliance with industry regulations and high standards of security and accessibility.

### Kelly School of Business | *Data Analyst*

May 2023 - December 2023 | Bloomington, Indiana

- Initiated a Market Basket Analysis project with the Apriori algorithm, utilizing MongoDB for data preparation, implementing statistical models, and analyzing transaction data to identify top revenue-generating brands for market.
- Conducted price dispersion analysis using standard deviations, formulated ranked tables with Excel, and used Exploratory Data Analysis for visualizations to present findings, and drive business growth by 25%.

### Plotmydata | *Data Scientist*

November 2021 – April 2022 | Hyderabad, India

- Carried out predictive analyses on diverse datasets and engineered a tree-based ensemble machine learning model, achieving over 95% accuracy in applications such as academic performance prediction, Parkinson's Disease diagnostics, and fake news detection; developed an interactive web-based dashboard with Plotly and Dash to visually present model performance metrics, and ensured model robustness.

### Margadarsi Private Limited | *Data Analyst*

May 2020 – June 2022 | Hyderabad, India

- Aided in the development and maintenance of a comprehensive customer database, utilizing advanced SQL, Excel, and Python to track and identify defaulters, automate data processing tasks, and optimize database performance.
- Designed interactive dashboards using Tableau and Power BI to provide actionable insights into quarterly financial performance, business improvements, and delinquency trends.
- Conducted in-depth data analysis to assess financial performance, highlighting key areas of profit growth and improvements, and generated detailed reports and visualizations that enhanced stakeholder decision-making and business strategy, contributing to a 30% increase in data-driven decision accuracy.

## PERSONAL PROJECTS

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### InsightStream | *Python, Streamlit, PyDeck, AWS S3, AWS Lambda, AWS RDS*

- Built a scalable web application for sentiment analysis and text summarization, integrating Python-based NLP techniques with AWS services (S3, Lambda, RDS) for efficient real-time data processing and storage.
- Utilized PyDeck to create detailed visualizations of sentiment trends and summaries, enhancing data interpretation with interactive charts and graphs. This approach improved data insights by up to 40%.

### AppFusion | *SQL, Plotly, Streamlit, SQLite3, Snowflake*

- Produced a scalable app recommendation system using SQL, Snowflake, and SQLite3 for data management, applied Python algorithms to enhance personalization with a 30% accuracy boost, and utilized Streamlit for the user interface and Plotly for visualizations to optimize the recommendation process and address the cold start problem.

## TECHNICAL SKILLS

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**Programming/Scripting:** Python, SQL, R, Java, JavaScript, Matlab

**Data Management and Cloud:** Microsoft Azure (Data Lake, DataBricks, Data Factory), AWS (S3, EC2, Redshift, Glue, RDS, Kinesis), Neo4j, Postgres, Spark, MongoDB, Snowflake, MySQL, MSSQL

**Libraries:** Pandas, NumPy, Scikit-learn, Matplotlib, PySpark, SQLAlchemy, dplyr, ggplot2, tidyr, shiny, caret

**Tools and Deployment:** PowerBI, QGIS, Tableau, Looker, Excel, SAS, JIRA, Docker

## Education

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### Indiana University

*Master of Science in Data Science — GPA: 3.7/4.0*

August 2022 – May 2024

Bloomington, IN

### Gandhi Institute of Technology and Management

*Bachelor of Technology in Computer Science and Engineering — CGPA: 3.9/4.0*

August 2018 – June 2022

Hyderabad, India

Awarded merit-based scholarship as a top 1% performer in the university.