

Harsith Reddy Karne

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TECHNICAL SKILLS

- **Programming & Scripting:** Python (Scikit-learn, Pandas, NumPy), R, SQL
 - **Databases & Storage:** PostgreSQL, MySQL, SQL Server, RedShift, BigQuery, Data Warehousing
 - **ETL & Automation:** ETL Pipeline Development, Power Automate, Apache Airflow, Azure Data Factory
 - **BI & Visualization:** Tableau, Power BI, Excel (PivotTables, Advanced Functions)
 - **Cloud Platforms:** AWS (S3, EMR, EC2, RDS), Azure
 - **Machine Learning:** Predictive Modeling, Regression, Classification, Customer Segmentation (RFM)
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WORK EXPERIENCE

Leftover Love, Inc.

Oakland, MD

Data Analytics Engineer Intern

January 2025 - Present

- Conducted comprehensive data infrastructure assessment across 10+ disparate sources, identifying fragmentation issues that delayed strategic planning cycles by 3+ weeks.
- Engineered a centralized ETL pipeline using **Python** and **SQL** to automate data ingestion and validation, consolidating all data sources into a unified relational database.
- Streamlined reporting by deploying an interactive **Power BI** dashboard with real-time KPI tracking, reducing report generation time from 3 weeks to 2 hours and enabling 25% faster strategic decision cycles.

AICTE (All India Council For Technical Education)

Hyderabad, TG, India

Data Engineer

May 2023 – July 2024

- Diagnosed severe system bottlenecks in legacy infrastructure that could only handle 1,000 concurrent users, causing frequent outages during peak exam periods and impacting service availability.
- Engineered a scalable data processing pipeline on **AWS**, leveraging **PySpark** for efficient transformation of 10K+ student records and utilizing **S3** for reliable data storage.
- Improved system capacity by 400% to support 5,000 concurrent users, reduced critical downtime from 2 hours to under 20 minutes, and slashed annual operational costs by 80%.

Palo Alto Networks

Hyderabad, TG, India

Data Analyst Intern

March 2022 – May 2022

- Identified inefficiencies in manual security log reviews, which required over 6 hours weekly to parse 50,000+ logs and delayed threat response times.
 - Developed a predictive model using **Python (Scikit-learn, Pandas)** to automatically classify security threats from raw log data with 95% accuracy.
 - Produced automated **Tableau** dashboards visualizing threat trends in real-time, which reduced manual review time by 90% and supported a successful \$500K security investment contract.
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PROJECTS

AI-Powered Natural Language to SQL Analytics Platform | **Python, Gemini LLM, Streamlit, PostgreSQL** | [GitHub](#)

- Identified a business challenge where non-technical stakeholders faced significant delays in receiving data insights, impacting timely decision-making.
- Developed an automated reporting tool using Python that generates and executes SQL queries against a PostgreSQL database, reducing analytics request time from 3 days to under 5 minutes.

NBA Game Demand & Dynamic Pricing Recommender | **Python, Pandas, SQL** | [GitHub](#)

- Developed a machine learning pipeline in **Python (Scikit-learn, Pandas)** to predict NBA game attendance by engineering 18 predictive features from over 30,000 historical game records.
- Implemented a Random Forest regression model achieving a 81.2% R^2 score and built a dynamic pricing engine demonstrating a potential revenue increase of up to 15% through optimized ticketing strategies.

NFL Stadium Revenue Analytics Platform | **BigQuery, SQL, Excel, Tableau, Python** | [GitHub](#)

- Analyzed strategic revenue optimization gaps where professional sports organizations lacked comprehensive premium seating performance analytics, preventing data-driven pricing strategies.
 - Architected integrated strategic analytics infrastructure using **BigQuery** and **Tableau** dashboards, revealing key performance factors enabling top venues to generate \$250K more in annual premium revenue through strategic positioning.
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EDUCATION

University of Maryland, Robert H. Smith School of Business

College Park, MD, USA

Master of Science, Information Systems, 3.82 GPA

Expected May 2026

- 3rd Place, AI in Business Case Competition

Osmania University

Telangana, India

Bachelor of Engineering, Computer Science

- Vice President, Digital Strategy - Street Cause Hyderabad