

Sukumar Govindaraj

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TECHNICAL SKILLS

- **Programming & Scripting:** Python, R, SQL, Shell Scripting, Nodejs
- **Analytics & Modeling:** Predictive Modeling, A/B Testing, Hypothesis Testing, Time Series Forecasting, Data Mining, Statistical analysis, Optimization Techniques, Classification Algorithms
- **Data Manipulation Tools:** SQL (PostgreSQL, SQL Server), Snowflake, Pandas, NumPy
- **Machine Learning:** Scikit-learn (Linear/Logistic Regression, Decision trees, Bayesian Statistics, Cluster Analysis, XG Boost), Statistics (Statsmodels), PyTorch, PySpark
- **ETL & Data Pipelines:** SSIS, SQL Server Agent, Python ETL Scripts
- **Cloud & Platforms:** Azure (ML, Databricks, Synapse), AWS (S3, Lambda, SageMaker)
- **Dashboarding & Reporting:** Tableau, D3.js, Excel (Pivot Tables, Power Query), PowerPoint, Data Visualization (Seaborn)
- **Project Management & Collaboration :** Agile, Jira, Confluence, Git, ServiceNow

PROFESSIONAL EXPERIENCE

RESEARCH ASSISTANT | UT Arlington | Arlington, TX

Sep 2023 – Present

- Collaborated with research teams and Leadership to understand business context and project objectives, extracting and analyzing structured datasets using SQL and Python to support predictive modeling and web-based reservation system optimizations.
- Led a team of 3 members and guided them on associated projects by providing support in database design, automation techniques, and performance tuning for improving the efficiency of analytics workflows and scheduled queries.
- Provided reliable access to high quality data through Tableau dashboards and reports summarizing tool utilization, reservation patterns, and user activity metrics to facilitate data-driven decision-making within the lab environment.

DATA ANALYST | Victoria's Secret & Co | Bangalore, IND

Mar 2022 – Jul 2023

- Utilized technical and analytical skills to extract, format, and report on historical sales and inventory datasets to uncover demand patterns, contributing to enhanced forecasting accuracy and optimized inventory management decisions.
- Collaborated with cross-functional teams to define success metrics and designed visualizations using Tableau to capture ongoing success evaluations for dashboard presentation.
- Demonstrated the summarized procedures and strategic insights to leadership teams, resulting in measurable improvements in operational efficiency and enabling timely business recommendations for inventory control and supply chain planning.

DATA ENGINEER | Web Wing's Global Solutions | Bangalore, IND

Jan 2021 – Mar 2022

- Designed and implemented robust ETL pipelines using SQL and MongoDB that processed large-scale operational data and provided clean inputs for dashboard development and predictive analytics across internal and external reporting systems.
- Participated in researching predictive analytics and visualization approaches by integrating multi-source data into D3.js dashboards, facilitating decision-making processes and supporting advanced score carding solutions for business users.
- Mentored junior engineers and provided technical guidance on data integration, monitoring scripts, and job scheduling, while supporting continuous improvement and ensuring availability of data structured for dashboard development.

PROJECTS & PUBLICATIONS

CUSTOMER TRIP INTENT CLASSIFICATION | American Airlines | Dallas, TX

May 2024 – Aug 2024

- Utilized Python and Snowflake to extract and analyze 20GB of booking records, built tree-based model to classify customer trip intent, and presented summarized results.

DATA WAREHOUSE AND ANALYTICS | [GitHub](#)

Feb 2024 – Apr 2024

- Designed a scalable data warehouse using Medallion Architecture and star schema modeling, developed advanced SQL queries to summarize sales, customer segments, and product performance, and built Tableau dashboards for dynamic business analytics.

SPOTIFY MUSIC RECOMMENDATION SYSTEM | [GitHub](#)

May 2024 – Aug 2024

- Created a content-based music recommendation system using TensorFlow and Flask. Users receive personalized song suggestions based on track names, genre, and artist similarity. Deployed the app with real-time response and an interactive user interface.

EDUCATION

MASTER'S DEGREE | Applied Statistics and Data Science | University of Texas at Arlington, TX

GPA: 4.0/4.0

BACHELOR'S DEGREE | Computer Science Engineering | Sahyadri College of Engineering, IND

GPA: 3.6/4.0