

# Suraj Shivakumar

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## EXPERIENCE

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### Graduate Research Assistant

Sep. 2023 – Present

*University Of South Florida*

*Tampa, FL*

- Automated data aggregation from the Federal Reserve and US Census Bureau using Selenium, and integrated into SQL for analysis, enhancing socio-economic and housing metrics insights in Tampa Bay, leading to a 30% increase in report generation efficiency.
- Developed Power BI dashboards for dynamic visualization of financial and affordability trends, improving data interpretation and comparative analysis across MSAs. strategic initiatives for 10+ urban development projects.

### Data Scientist

Jan. 2023 – Jul. 2023

*Yulu Bikes*

- Utilized SQL to create an automated staff performance scorecard, reducing manual processing by 75% and enhancing evaluation efficiency.
- Designed and deployed an NLP model using TF-IDF and LSTM, accurately predicting tags for customer support queries, which optimized categorization and accelerated response times, resulting in a 50% reduction in query resolution time

### Associate Data Analyst

May. 2021 – Jan. 2023

*Fleek Technologies*

- Collaborated with the Growth and Marketing team to develop a machine learning model using XGBoost to predict customer churn, resulting in a 12% increase in Return on Ad Spend (ROAS).
- Leveraged PySpark and SQL for ETL pipeline and data mart management, deploying an Apache Superset dashboard that streamlined decision-making and enhanced data-driven strategies.

## TECHNICAL SKILLS

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**Languages:** Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R

**Frameworks:** NumPy, Pandas, Matplotlib, Seaborn, SciPy, Spacy, Tensorflow, Pytorch

**Tools:** Git, Tableau, Jupyter Notebooks, Apache Superset, Microsoft Excel, Apache Airflow, Amplitude Analytics

**Capabilities:** Statistical Analysis, Time Series Analysis, Machine Learning, Data Visualization, AB testing

## EDUCATION

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### University Of South Florida

Tampa, FL

*Masters of Science in Artificial Intelligence and Information Systems*

*Aug. 2023 - May 2025*

### Visvesvariah Technological University

*Bachelor of Engineering in Electronics and Telecommunications*

*Aug. 2016 – Aug. 2020*

## PROJECTS

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### Graphien: Duo-lingo for Writing Skills | *Python, Flask, React.js, TensorFlow Lite*

- Engineered a gamified web application for teaching writing, featuring a high-efficiency image classification system powered by TensorFlow Lite, ensuring low-latency interactions with an average recognition time of less than 2 seconds
- Trained and refined a Convolutional Neural Network (CNN) architecture, attaining a remarkable 97% recognition accuracy for English alphabets.

### AutoWise: Used car marketplace | *Python, Flask, Javascript, PostgreSQL, Scikit Learn*

- Developed a full-stack used car marketplace, illustrating end-to-end proficiency from data scraping to application deployment with an integrated database system.
- Crafted a hybrid recommender system leveraging both image and item similarity to enhance recommendation accuracy.
- Crafted a precise price recommendation system leveraging a stacked machine learning model, amalgamating Random Forest, XGBoost, and MLP algorithms. Achieved an RMSE of less than 1000\$, significantly enhancing pricing accuracy

## ACHIEVEMENTS

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- Secured **2nd Place at Bayhacks 2024**, a competitive hackathon with 100+ participants, hosted by Tampa Devs Community in Tampa Bay.
- Co-authored the **2024 State of the Region Report**, a comprehensive analysis published to inform policy and development strategies in the tampa bay region.