Vishwesh Srinivasan

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Education

Tufts University, MA, USA | Master of Science in Data Analytics | GPA: 3.96/4.00 *Sep 2022 – May 2024*

National Institute of Technology Warangal, India | B.Tech in Mechanical Engineering *Aug 2016 – Aug 2020*

Experience

Paragon Corporation, MA, USA | Database Programmer *Jan 2024 – Present*

- **Developing** and **maintaining databases** supporting the clients' operations.

Data Analytics Department, Tufts University, MA, USA | Graduate Teaching Assistant *Sep 2023 – Present*

- Teaching labs, conducting office hours, and supporting course logistics for DATA 200 (Foundations of Data Analytics) and DATA100 (Introduction to Data Analytics) courses.

JPMorgan Chase & Co., DE, USA | AI & Data Science Summer Associate, CCB Risk Modeling *Jun 2023 – Sep 2023*

- Researched the significance of more than one personal guarantor's information for deciding on the approval/denial of a **small business credit application** to **improve customer experience**.
- Developed two **XGBoost classifiers** using **PySpark** on **AWS Cloud**, compared the models' performance, and recommended not collecting additional guarantors' information for applications with less than $250k exposure.

Data Analytics Department, Tufts University, MA, USA | Graduate Research Assistant *Jan 2023 – Apr 2023*

- Contributed to making **D'Arcy Thompson's Glossary of Greek Birds** accessible to the general audience using **automated tagging** and **natural language processing** techniques.

Citigroup, India | Tech Program Application Developer – 1, PBWM Technology *Aug 2020 – Jul 2022*

- **Developed and maintained back-end systems** for processing loans originating from Citibank's US markets.
- Developed an **automated system** to transform text reports generated to **Interactive Dashboards** using **VBA**.

Language Technologies Research Center, IIIT Hyderabad, India | Research Intern *May 2019 – Jul 2019*

- Implemented a **Seq2Seq model** with a reward function in **Python** for **sentence simplification**, which helped reduce the model's validation perplexity by 16% compared to the state-of-the-art model.

Reliance Jio Infocomm Limited, India | Machine Learning Intern, Jio Coverage Platform *May 2018 – Jul 2018*

- Improved the **user experience** of an internal platform, **Foresight**, used to monitor and fix network coverage issues. Improvements included building a **recommendation system** using **NLP algorithms** in **R**.

SPI Cinemas Private Limited, India | Data Science Intern, Human Resources *Nov 2017 – Dec 2017*

- Analyzed the data of the frontline staff and implemented a **classification model** (with **87% accuracy**) in **Python** to predict the likelihood of an employee leaving within the first three months of joining.

Projects

Relationship between air pollution and walkability in Greater Boston Region [Repository]

- Visualized the exposure to air pollution and walkability in the Greater Boston Region, implemented **spatial regression models** to study the relationship between these two variables, and found a positive correlation between them.

Database system to manage the payroll system at Tufts Dining [Repository]

- Designed a **database system** and developed a user guide to manage the database. The user guide contains queries to add data and the most frequent scenarios for updating, deleting, and viewing the data in different forms.

Gentrification study of New York and Los Angeles metropolitan areas [Repository]

- Implemented classification algorithms with **SMOTE techniques** (to handle imbalanced data) to predict the likelihood of a census tract getting gentrified between 2000 and 2010 using the **Neighborhood Change Database**.

Technical Skills

Programming Languages: Python, R, SQL, MATLAB, Visual Basic for Applications (VBA), C++
Tools: GCP, AWS SageMaker & EMR, Tableau, R Shiny, Elasticsearch, Kibana, Kepler.gl, Linux, Git, Jira, Excel, PowerPoint
Libraries: NumPy, Pandas, Matplotlib, Scikit-Learn, PySpark, GeoPandas, PySAL, PyTorch, TensorFlow, ggplot