Vishwesh Srinivasan

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EDUCATION

Tufts University, MA, USA - *Master of Science in Data Analytics, GPA: 3.94/4.00*   Sep 2022 - May 2024
(Received a 30% tuition scholarship for past academic and professional excellence)
National Institute of Technology Warangal, India - *B.Tech in Mechanical Engineering*   Aug 2016 - Aug 2020

EXPERIENCE

Data Analytics Department, Tufts University, MA, USA   Sep 2023 - Dec 2023
Graduate Teaching Assistant, DATA 200: Foundations of Data Analytics

JPMorgan Chase & Co., DE, USA   Jun 2023 - Sep 2023
AI & Data Science Summer Associate, Consumer & Community Banking Risk Modeling – Business Banking
- Researched the significance of more than one personal guarantor's information for deciding on the approval/denial of a **small business credit application** with the aim of improving 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   Jan 2023 - Apr 2023
Graduate Research Assistant, Supervisor: Prof. Marie-Claire Beaulieu
- Contributed to the process of making **D'Arcy Thompson's Glossary of Greek Birds** accessible to the general audience with the use of **automated tagging** and **natural language processing** techniques.

Citicorp Services India Private Limited (Citigroup), India   Aug 2020 - Jul 2022
Tech Program Application Developer - 1, Personal Banking and Wealth Management Technology – Core Banking
- Developed back-end systems used for processing loans, focusing on designing the **monthly statements of personal loans** originating from Citibank's US markets.
- Developed an end-to-end Automated Dashboard Generation system to **transform** maintenance **text reports** generated daily from the mainframe to **Interactive Dashboards** using **VBA**.

Language Technologies Research Center, IIIT Hyderabad, India   May 2019 - Jul 2019
Research Intern, MT-NLP Lab, Supervisor: Prof. Dipti Misra Sharma
- Implemented a **Seq2Seq model** with a reward function in **Python** for the task of **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   May 2018 - Jul 2018
Machine Learning Intern, Jio Coverage Platform - Data Science Team
- Improved the **user experience** of an internal platform, **Foresight**, which is used to **monitor** and **fix network coverage issues**. Improvements included building a recommendation system using **NLP algorithms** in **R**.

SPI Cinemas Private Limited, India   Nov 2017 - Dec 2017
Data Science Intern, Human Resources Team
- 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.

COURSEWORK PROJECTS

Relation between air pollution and walkability in Greater Boston Region [Repository]   Jan 2023 - May 2023
- 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]   Jan 2023 - May 2023
- 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]   Oct 2022 - Dec 2022
- Implemented classification algorithms with **SMOTE techniques** (to handle imbalance 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: AWS SageMaker, AWS EMR, Tableau, Elasticsearch, Kibana, ArcGIS, R Shiny, Kepler.gl, Git, Jira, Excel, PowerPoint
Libraries: NumPy, Pandas, Matplotlib, Scikit-Learn, PySpark, GeoPandas, PySAL, PyTorch, TensorFlow, ggplot