# 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 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**: 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