

Vishwesh Srinivasan

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Education

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| Tufts University, MA, USA Master of Science in Data Analytics GPA: 3.96/4.00 | <i>Sep 2022 – May 2024</i> |
| National Institute of Technology Warangal, India B.Tech in Mechanical Engineering | <i>Aug 2016 – Aug 2020</i> |

Experience

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| Data Intensive Studies Center, Tufts University, MA, USA Research Intern | <i>Jan 2024 – Present</i> |
| <ul style="list-style-type: none">Building machine learning models to detect rare circulating tumor cell clusters in whole blood. | |
| Paragon Corporation, MA, USA Database Programmer | <i>Jan 2024 – Present</i> |
| <ul style="list-style-type: none">Developing and maintaining databases supporting the clients' operations. | |
| Data Analytics Department, Tufts University, MA, USA Graduate Teaching Assistant | <i>Sep 2023 – Present</i> |
| <ul style="list-style-type: none">Teaching labs, conducting office hours, and supporting course logistics. | |
| JPMorgan Chase & Co., DE, USA AI & Data Science Summer Associate, CCB Risk Modeling | <i>Jun 2023 – Sep 2023</i> |
| <ul style="list-style-type: none">Developed XGBoost classifiers using PySpark on AWS Cloud with and without additional guarantors' information to determine the outcome of a small business credit application.Following analysis, recommended not to collect additional guarantors' information for applications with less than \$250k exposure, which will lead to quicker decisions and improved customer satisfaction. | |
| Data Analytics Department, Tufts University, MA, USA Graduate Research Assistant | <i>Jan 2023 – Apr 2023</i> |
| <ul style="list-style-type: none">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 | <i>Aug 2020 – Jul 2022</i> |
| <ul style="list-style-type: none">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 | <i>May 2019 – Jul 2019</i> |
| <ul style="list-style-type: none">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 | <i>May 2018 – Jul 2018</i> |
| <ul style="list-style-type: none">Improved the search 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 | <i>Nov 2017 – Dec 2017</i> |
| <ul style="list-style-type: none">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

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| Relationship between air pollution and walkability in Greater Boston Region [Repository] |
| <ul style="list-style-type: none">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] |
| <ul style="list-style-type: none">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] |
| <ul style="list-style-type: none">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