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*
Coursework: Database Design & SQL, Intro to Machine Learning, Big Data, Data Science for Urban Sustainability, Adv. Statistics I & II
Experience: Graduate Teaching Assistant for Foundation of Data Analytics (DATA200) & Introduction to Data Analytics (DATA100)

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

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

EXPERIENCE

Data Intensive Studies Center, Tufts University, MA, USA | Research Intern *Jan 2024 – Present*
- Improving the performance of machine learning models for detecting rare circulating tumor cell clusters in blood.

Paragon Corporation, MA, USA | Database Programmer *Jan 2024 – Present*
- Increasing the efficiency of clients' operations by streamlining the development and maintenance of their databases.

JPMorgan Chase & Co., DE, USA | AI & Data Science Summer Associate, CCB Risk Modeling *Jun 2023 – Sep 2023*
- Proposed a strategy to lower costs and improve the experience for small-business credit applicants by not collecting additional guarantors' information for applications with less than $250k exposure and making faster decisions.
- Formulated the above strategy by building and analyzing the performance of two XGBoost classifiers using PySpark on the AWS cloud, with and without the additional guarantors' information.

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*
- Enabled the efficient processing of personal loans by streamlining the processes in the core banking systems.
- Eliminated the manual processing of reports with an automated system to convert them to dashboards using VBA.

Language Technologies Research Center, IIIT Hyderabad, India | Research Intern *May 2019 – Jul 2019*
- Reduced the model's perplexity used for sentence simplification by 16% compared to the state-of-the-art model by implementing a Seq2Seq model with a reward function in Python.

Reliance Jio Infocomm Limited, India | Machine Learning Intern, Jio Coverage Platform *May 2018 – Jul 2018*
- Enhanced the search experience of an internal platform, used to monitor and fix network coverage issues by building auto-complete, related search features and a recommendation system using NLP algorithms in R.

SPI Cinemas Private Limited, India | Data Science Intern, Human Resources *Nov 2017 – Dec 2017*
- Pioneered a data-driven hiring culture by developing a pipeline to visualize data and a classification model with 87% accuracy in Python to predict the likelihood of a frontline employee leaving within the first three months of joining.

PROJECTS

Relationship between air pollution and walkability index in Greater Boston Region [Repository]
- Found a positive correlation between exposure to air pollution and the walkability index in the Greater Boston Region by analyzing the visualizations and the results of spatial regression models.

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.