

# Lakshmi Venkatasubramanian

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Greater Seattle area

## Summary

- Over 10 years' experience spanning Test Engineering and Data Analytics, supporting and driving projects End to End.
- Demonstrated leadership through industrial experience in various domain and customer settings.
- Strong experience using SQL and programming using Java, R and Python
- Implementation of Machine learning models such as Ridge Regression, logistic regression, Support Vector Machine, Principal Component Analysis and LASSO mathematically and using analysis packages such as NumPy, Scikit-learn, Pytorch and pandas.
- Strong understanding of the concepts of Experimentation Design such as A/B testing, Hypothesis Testing, ANOVA, Linear Regression.
- Knowledge of Statistics and End to End Data Science process, Exploratory Data Analysis/Data Mining and data visualization using Tableau and Power BI.

## Education

- **Master's in Data Science**, University of Washington, USA (GPA 3.88/4) **(2019-2022)**  
Relevant coursework (through Summer 2020) - Applied Statistics and Experimentation Design, Introduction to Probability and Statistics, Data Science process, Special Topics in Data Science, Statistical Machine learning, Data Visualization
- **Bachelor of Engineering in Electrical and Electronics**, Anna University, India (GPA 3.7/4) **(2005-2009)**

## Projects

- **Predict Education Costs**: The goal of this [project](#) is to predict education costs of 4-year public university program in USA and identify the most influential predictor variable based on accuracy and model assumptions. GLM model predicted with 96% accuracy.
- **Analysis of Housing Prices**: In this [project](#), the association between the price per night of a listing is assessed based upon a variety of factors and attempt to determine whether the impact of said factors changes based upon the city market using a Poisson regression model.
- **Streaming Platforms Comparison**: The goal of the [project](#) is to create an interactive visualization that can be perceived as a go-to marketplace for comparing popular streaming platforms on various metrics such as Genre, content type, average IMDb rating.

## Relevant Experience

**Senior Test Engineer**, Puget Sound Energy **(Jun 19 - Current)**

- Lead Data Analytics projects collaborating with Business users and cross-teams, making recommendations to test approach and test strategy, and mitigating project timeline constraints.
- Tested ETL workflows and Business use cases through SQL queries, enabled Data-Driven decision making by contributing to the analysis and validations of 2 major Power BI Analytics Dashboards to the End Customers.
- Identified root cause of high severity defects in the Python Data Science features that impacted 40% of data.

**UAT Test Lead**, Microsoft (Tata Consultancy Services) **(Dec 17 - Aug 18)**

- Delivered a cross-functional Partner Rebates project that uncovered major gaps in the Rebates Eligibility program and contributed towards Revenue Protection saving thousands of dollars.
- Built well-equipped test team of 8 from scratch that increased the productivity by 90%.
- With no proper documentation or knowledge transfer, learnt the business process workflows by debugging the stored procedures, doing data analysis and meeting with the business experts in various time zones.

**Software Development Engineer in Test**, Liberty Mutual (Tata Consultancy Services) **(Jul 16 - Nov 17)**

- Maintained development, testing of applications, and supported Agile teams resulting in 2 major customer facing releases.
- Automated testing web services using SOAP UI, Groovy, and User Interface using Selenium TestNG web driver that resulted in reduction of execution time and manual efforts by 60%.
- Reported product quality metrics to aid in product release criteria such as high and critical defects, user experience and usability defects, regression testing metrics, test scripts executed and passed.

## Additional Information

- Second place in Husky AI Hackathon 2020 out of the 12 teams and contributed towards the design of the User Interface.
- Grace Hopper Student Scholar 2020 sponsored by University of Washington.