Lakshmi Venkatasubramanian

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SUMMARY

Data and Machine Learning Enthusiast with overall work experience spanning Test Engineering and Data Analytics, supporting and driving customer insights, User Experience and data projects end to end.

EDUCATION

- **Master's in Data Science**, University of Washington, USA (GPA 3.9/4) **(2019-2022)**

  Relevant coursework (through Winter 2021) - Applied Statistics and Experimentation Design, Introduction to Probability and Statistics, Data Science process, Human Centered Data Science, Statistical Machine learning, Data Visualization, Human Centered Data Design, Software Design for Data Scientists

- **Bachelor of Engineering in Electrical and Electronics**, Anna University, India (GPA 3.7/4) **(2005-2009)**

SKILLS

- **Languages/technologies:** Proficient in SQL, Java and Python and familiar with R, JavaScript, HTML, CSS
- **Machine Learning:** Regression, Support Vector Machine, Decision trees, Principal Component Analysis, K-means clustering, LASSO, Sentiment analysis, Anomaly detection, hands-on using Scikit-learn analysis package, NumPy, PyTorch and pandas, familiarity with Natural Language Processing and Deep Learning, Predictive Modelling, Exploratory Data Analysis
- **Databases:** Oracle SQL, HANA Studio, Athena, MongoDB, SQL, SAP HANA Studio, SAP Data Objects
- **Experimentation Design and Statistics:** Probability distributions, A/B testing, Hypothesis Testing, ANOVA, Regression, Classification
- **Data Visualization :** Tableau, Power BI, Excel
- Experience using Git, Amazon Web Services, Linux terminal

PROJECTS

Selected projects on Github

- **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 using Tableau 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.
- **Analysis of COVID impact on US Households:** The goal of this analysis is to gauge the impact of the pandemic on overall household and answer the research questions using Regression Analysis, K-means clustering, PCA and statistical analysis.
- **Sentiment Analysis and Bias in Data:** The goal of this project is to predict the sentiment of Wikipedia discussion comments and identify any sources of bias that may exist in the datasets using Exploratory Data Analysis, NLP toolkit and Naïve Bayes.

RELEVANT EXPERIENCE

Senior Test Engineer/Data Analyst Jun 2019 - current
Puget Sound Energy *Bothell, WA*

- Lead Data Analytics projects collaborating with Business users and cross-teams, making recommendations to test approach and test strategy, facilitating User Acceptance and mitigating project timeline constraints.
- Tested end to end ETL workflows and Business use cases through SQL queries, enabled Data-Driven decision making by contributing to the analysis and validations of 2 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 Dec 2017 - Aug 2018
Microsoft (Tata Consultancy Services) *Redmond, WA*

- Spearheaded a cross-functional Partner Rebates project that uncovered major gaps in the Rebates Eligibility program saving thousands of dollars in revenue.
- Transformed ambiguous requirements into well-defined actionable tasks by debugging and analyzing data using SQL and reduced the team's effort by 50%

Software Development Engineer in Test Jul 2016 - Nov 2017
Liberty Mutual (Tata Consultancy Services) *Seattle, WA*

- Maintained development and supported Agile teams for User Interface and Web applications using SOAP UI, Groovy, and Selenium framework that resulted in reduction of execution time and manual efforts by 60%.
- Provided visibility on the overall Product Quality to Stakeholders by timely reporting of metrics such as Entrance/Exit criteria, User Experience, Defects, Downtime, Automation coverage to aid in product release.

ACHIEVEMENTS

- 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.