

Lakshmi Venkatasubramanian

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SUMMARY

Overall experience spanning Data Science, Test Engineering and Data Analytics space, supporting and driving Customer Insights, User Experience and Data projects end to end

EDUCATION

- **Master's in Data Science**, University of Washington, USA (GPA 3.91/4) (2019-2022)
- **Bachelor of Engineering in Electrical and Electronics**, Anna University, India (GPA 3.7/4) (2005-2009)

SKILLS

- **Languages/technologies:** SQL, Java and Python, PySpark, familiar with R, JavaScript, HTML, CSS
- **Machine Learning:** Regression, Classification, Clustering, Principal Component Analysis, Sentiment analysis, Anomaly detection, hands-on using Scikit-learn and Spark ML package, NumPy, PyTorch and pandas, Predictive Modelling, Exploratory Data Analysis
- **Databases:** Oracle SQL, HANA Studio, AWS Athena, MongoDB, SQL, SAP HANA Studio, SAP Data Objects, Cassandra
- **Experimentation Design and Statistics:** Probability distributions, A/B testing, Hypothesis Testing, ANOVA
- **Data Visualization :** Tableau, Power BI, Excel
- Experience working with Git, Amazon Web Services, Linux terminal, Extract Transform Load(ETL)

PROJECTS (Selected projects on [Github](#))

- **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.
Skills used: Exploratory Data Analysis, Data Cleaning, Tableau Visualization
- **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, Statistical analysis, Hypothesis Testing.**
- **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, Predictive Modelling, NLP toolkit and Naïve Bayes.**
- **Illicit transactions detection in the Bitcoin blockchain:** The goal of this [project](#) is to compare the performance of **Supervised** and **Unsupervised techniques** to detect illicit bitcoin transactions on Elliptic dataset

WORK EXPERIENCE

Analytics Intern Tesla	Sep 2021 – Current Redmond, WA
<ul style="list-style-type: none">• Automate metrics calculations based on contractual obligations using Python and PySpark.• Create tables, schedule and monitor workflows through Airflow DAGs to analyze performance of energy storage products.	
Machine Learning Engineer Intern Intuit	Jun 2021 – Sep 2021 Redmond, WA
<ul style="list-style-type: none">• Built Customer Churn Binary Classification model using Spark MLlib, Databricks MLflow and evaluated the best model based on F1-scores.• Evaluated AutoML solution from vendors to support propensity models to end customers leveraging AWS infrastructure.	
Senior Test Engineer Puget Sound Energy	Jun 2019 – Mar 2021 Bothell, WA
<ul style="list-style-type: none">• Led testing efforts of Data Analytics projects by validating Extract Transform Load(ETL) workflows and Data Science algorithms using Python and SQL which improved data-driven decision-making capabilities for End Customers by 80%.• Achieved 90% improvement in the overall test approach and test strategy by adopting Agile best practices, improving User Experience and mitigating project timeline constraints.• Validated Power BI dashboards and performed data validations in Athena and SAP HANA studio.	
Senior Data Analyst Microsoft (via Tata Consultancy Services)	Dec 2017 - Aug 2018 Redmond, WA
<ul style="list-style-type: none">• Spearheaded a cross-functional Partner Rebates project using Project Management, Leadership skills 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 code, analyzing data using SQL and Python, meeting with Business experts, and reduced the team's effort by 50%	
Software Development Engineer in Test Liberty Mutual (via Tata Consultancy Services)	Jul 2016 - Nov 2017 Seattle, WA
<ul style="list-style-type: none">• Maintained development and supported Agile teams for User Interface and Web applications using SOAP UI, Java, 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.	
Lead Analyst Kaiser Permanente (via Tata Consultancy Services)	Mar 2010 – Jun 2016 Pasadena, CA
<ul style="list-style-type: none">• Developed code for HR Payroll and Health care benefits projects using Java, SQL, DB2, Cobol, JCL, Proc• Built tools using Rexx and Java Automation framework to automate redundant tasks.• Established and configured testing environments for System, Parallel, UAT testing and dress rehearsal	

ACHIEVEMENTS

Second place in Husky AI Hackathon 2020 out of the 12 teams and contributed towards the design of the User Interface.