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

- Programming/tools: SQL, Java and Python, PySpark, familiar with R, JavaScript, HTML, CSS, Git, AWS
- 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, 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

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
- <u>Analysis of COVID impact on US Households:</u> The goal of this <u>analysis</u> 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.
- <u>Illicit transactions detection in the Bitcoin blockchain:</u> The goal of this <u>project</u> is to compare the performance of **Supervised** and **Unsupervised** techniques to detect illicit bitcoin transactions on Elliptic dataset

WORK EXPERIENCE

Analytics Intern

Tesla

Intuit

Sep 2021 – Current

Redmond, WA

- 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

Jun 2021 - Sep 2021

Redmond, WA

Built Customer Churn Binary Classification model using Spark MLib, 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

Jun 2019 – Mar 2021

Puget Sound Energy Bothell, WA

- 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

Dec 2017 - Aug 2018

Microsoft (via Tata Consultancy Services)

Redmond, WA

- 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

Jul 2016 - Nov 2017

Liberty Mutual (via Tata Consultancy Services)

Seattle, WA

- 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

Mar 2010 - Jun 2016

Pasadena, CA

- Kaiser Permanente (via Tata Consultancy Services)
 - 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.