SRINIVASA BALA RUDRARAJU

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LinkedIn: linkedin.com/in/srinivasrudraraju   **GitHub:** github.com/rsbkr333   **Portfolio:** rsbkr333.github.io

TECHNICAL SKILLS

- **Proficient:** Python - pandas, numpy, sklearn, matplotlib, seaborn & nltk, Statistical Modeling, Machine Learning - Supervised (Regression & Classification) and Unsupervised Learning (Clustering), Anomaly Detection - Fraud Pattern Detection, Object Oriented Programming, SQL on Teradata, Oracle & MySQL, Hadoop - Hive QL & Spark SQL, Perl, Unix Shell Scripting, VBScripting and Jupyter Notebook

- **Exposure:** Hypothesis Testing**,** A/B Testing**,** Airflow**,** Statsmodels**,** Spark ML**,** AWS - S3 & EC2, IBM SPSS, Microsoft Azure ML, SAS, C++/Java, and Databricks

PROFESSIONAL EXPERIENCE

American Express | Data Scientist | Phoenix, AZ   December 2018 - Present
- Automated the data pipeline, feature selection/engineering and rule generation framework to identify emerging fraud patterns for small business cards using Python, Pandas, Sklearn, Hive, SPRIM and Spark SQL which reduced the fraud loss by $1 million annually.
- Streamlined and automated external data evaluation using Python, Pandas, SPRIM and Sklearn to speed up the new feature identification process by 4x.

Collabera | Data Scientist | Phoenix, AZ   September 2016 - December 2018
- Developed predictive models to detect anti money laundering activity using Python, Random Forest and Logistic Regression algorithms which would help save the operational costs by 50%.
- Built enhanced name matching for identifying third party wires using NLP\text mining techniques in Python to reduce the false alerts by 30%.
- Developed a free form text parser tool to identify tax haven countries using Python regex to improve the quality of the alerts by 20%.

J P Morgan Chase | Lead Data Analyst | Hyderabad, INDIA   April 2011 - July 2015
- Analyzed the operational data of critical data warehouse using SQL, Python and Shell Scripting to reduce the overall incident count by 50%.
- Forecasted the utilization and capacity metrics using regression techniques to reduce the operating cost by 30%.

Accenture | Senior Software Engineer | Hyderabad, INDIA   April 2011 - July 2015
- Designed and developed scripts to upgrade monitoring framework using Perl and shell scripting to reduce the incident count by 40%.
- Established the automation framework for cleaning, validating, and processing large amounts of test data using SQL and VBSCRIPT to reduce the manual effort by 70%.

EDUCATION

Master of Science in Business Analytics, *Arizona State University*   May 2016
- Relevant Coursework: Data Mining, Introduction to Enterprise Analytics, Introduction to Applied Analytics, Marketing Analytics and Applied Analytics Project

Bachelor of Technology in Electrical Engineering, *Malaviya National Institute of Technology*   May 2006
- Relevant Coursework: C, C++, Numerical Methods, Computer Architecture and Microprocessors

PUBLICATIONS

Platform Comparison of ML Algorithms | Research Intern | [Link](#)   May 2016 – September 2016
Research project to compare the performance of ML Algorithms on multiple platforms

- Trained/Tested various Machine Learning Algorithms performance on research datasets using Sklearn and Spark ML libraries resulting in a publication accepted by INFORMS Journal on Computing

LEADERSHIP + AWARDS

Q4 Star Award, *American Express*   December 2019