

VAISHNAVII PONNUSAMY PARAMASHIVAM

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- Individual with 3+ Professional and Academic Experience in Data Science seeking full-time Data Science roles from Dec 2020

EDUCATION

Master of Science (M.S.) – Business Analytics, University of Illinois at Chicago (GPA: 3.55) 08/2019 - 12/2020
Bachelor of Engineering (B.E.) - Computer Science, Anna University, India (GPA: 4) 08/2012 – 06/2016

CORE COMPETENCIES

- Data Science
- AGILE Principles
- Data Analysis
- Big Data
- Data Visualization
- Predictive Analytics
- Statistical Analysis
- Business Intelligence

TECHNICAL PROFICIENCIES

Programming/Scripting: Python, R, MS-SQL, JavaScript, Java, C, HTML, CSS **Analytical/Data Viz. Tools:** Tableau, PowerBI, Jaspersoft
Other Tools: MS Office, MS Excel, Clarity, JIRA, Mathworks Polyspace. **Database/Big Data:** Spark, Hadoop, Pig, SQL Studio, Oracle, NoSql
Statistics: Hypotheses testing, Anova, Chi-sq, Correlation, t-test. **Packages:** numpy, pandas, ggplot2, sklearn, seaborn, pytorch, matplotlib

ACADEMIC PROJECTS

2019 - 2020

False News Classifier | Python, R, Tableau, NLTK, Sentiment Analysis, Google AutoML, Unstructured Data, NLP

- Devised a text classification model capable of identifying false medical claims on Cannabis Use in twitter
- Extracted and analyzed 80k+ tweets, processed unstructured data, identified social bots, network of bots, tweeting frequency, etc.
- Model identified 99% false claims & can be used by healthcare officials and twitter to regulate Misinformation on Cannabis Use

Accident risk prediction on traffic in the US | Python, R, Tableau, Decision Trees, KNN, Multinomial Logit Regression, SVM

- Built an “Accident Risk Prediction” model using Decision Trees, KNN, Multinomial Logit Regression and SVM to predict the severity of accidents on traffic in the US, in which SVM performed better at 80% F1-Score at 100% precision
- Analyzed 50k+ real-time traffic records, identified hot-spot accident locations and key factors contributing to severe accidents

ETL Project | Python, MySql, Tableau, NLTK, Beautiful Soup, Web Scraping, Text Mining, Exploratory Data Analysis

- Analyzed 1500+ movie scripts & movie ratings that showed movie scripts with higher swear words had higher IMDB ratings
- Extracted movie scripts from IMSDB website, performed text mining to identify and classify swear words from movie scripts
- Aggregated swear words and movies data, imported it to MySql database which was loaded into Tableau to derive insights

Data Visualization – Performance Evaluation of ‘Envoy Air’ | Tableau, Dashboard, Stories, Network Graphs

- Created interactive dashboards and stories, provided visual overview of Envoy Air’s delay/on-time and other key metrics
- Analyzed 1.3 million records of real-time airline data, suggested profitable routes for ‘Envoy Air’ using Network Graphs and statistical analysis

Big Data - Recommendation System | Big Data, Collaborative Filtering, Matrix Factorization, Machine Learning, Python, PySpark

- Produced Recommendation System for ‘Amazon Fine Foods’ by applying Distance based User Collaborative filtering and Alternative Least Square Matrix Factorization. Popularity-based approach was used for users with no prior history.
- Analyzed 500k user reviews, Alternative Least Square Matrix Factorization method performed better at a RMSE of 1.204

PROFESSIONAL EXPERIENCE

Software Engineer – Robert Bosch, India | R, Python, Machine Learning, MathWorks Polyspace, Statistical Analysis 11/2017 – 8/2019

- Expertise in developing machine learning and statistical models by mining run time error data from MathWorks Polyspace tool and performing error analysis to predict error/not error in Engine software
- Provided critical run time bug fix solutions to OEMs preventing real-time field failure of Engine Software saving billion-dollar revenue for RBEI
- Interfaced with offshore teams in Germany - providing suggestions from analytics standpoint and introduction of AI to automate the manual analysis process
- Technical lead for a sub team in delivery planning and escalation management of VW OEM Engine Software

Software Engineer – Verizon Data Services, India | Clarity PPM, Jenkins, Selenium, SQL, Jaspersoft, PowerBI. 7/2016 – 11/2017

- Expertise in creating business workflows in Clarity PPM tool using SQL, Gel scripting and XML
- Automated manual processes using Selenium Web Driver for each business unit model in Verizon and integrated them using build automation tool Jenkins, thus reducing the overall lead time of final delivery by 25%
- Highly appreciated and recognized with ‘Best Incoming Employee’ award for attending to all the Incident and Change Requests in a timely manner
- Designed data driven reports and periodic dashboards in PowerBI and Jaspersoft

CERTIFICATIONS

- Tableau Desktop Specialist
- Data Scientist - Tableau
- Gold Badge – SQL Hackerrank
- AWS Associate Developer - Udemy
- ISTQB Agile Certification
- Machine Learning - Coursera