Vaishnavii Ponnusamy Paramashivam

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SUMMARY

- Skilled resource with 4+ years of professional experience in the areas of Data Science, Data Engineering and Data Analytics seeking full time opportunities as a Data Scientist/Data Analyst.
- Proficient in Python, R, SQL, Big Data, Power BI, Tableau, Advanced Statistics, Machine Learning, Deep Learning, Reporting and Consulting.

EDUCATION

Master of Science in Business Analytics (Data Science), University of Illinois at Chicago GPA – 3.61/4 Aug 2019 – May 2021 Courses: Advanced Statistics, Data Mining, Machine Learning, Advanced DBMS, Big Data, Time Series & Forecasting, Healthcare Analytics, ML Deployment, Operations Management, Supply Chain Management, Analytics Strategy & Practice | Awarded merit scholarship for 3 semesters Bachelor of Engineering in Computer Science Engineering, Anna University GPA – 8.09/10 Aug 2012 – May 2016

SKILLS

Technical/BI Tools| Python, RStudio, Java, C, PHP, JavaScript, Tableau, MS Power BISQL/NoSQL/Big Data| MS SQL, Oracle SQL, PL/SQL, Hadoop, HIVE, Spark, MapReduce, MongoDB

Analytical Techniques | Hypothesis, A/B Testing, ANOVA, Regression, Classification, Confidence Interval, Sampling

Cloud Tools | AWS, Azure, Docker, Databricks

Packages | numpy, pandas, scikit-learn, matplotlib, Spark SQL, Spark ML, tensorflow, keras, PyTorch

CERTIFICATION

Azure Data Engineer (DP 200), Tableau Certified Desktop Specialist, AWS Associate Developer, ISTQB Certified Agile Tester

EXPERIENCE

Data Science Intern - Cloudbakers, Chicago, USA

Jan 2021- Present

- Developing a data science application that predicts real-time health indication of Git repositories and sends periodic alerts.
- Designing an automated data pipeline using **Azure Data Factory** that extracts large training datasets from **Google Bigquery**, pre-processes the data and trains **LSTM** predictive model on continuous time-series data using **Azure Databricks**.

Data Scientist – UIC College of Dentistry, Chicago, USA

June 2020 - Present

- Extracted and analyzed large unstructured data using NLP, Topic Modelling and Text mining techniques in Python that increased operational efficiency and reduced inventory costs by 28%.
- Developed a Time Series Forecasting model in R with RMSE of 1.302 to forecast the weekly, monthly, quarterly and yearly demand of network drive usage that reduced server operating costs by 12%.
- Designing & implementing data models, interactive dashboards, and visualizations for ad-hoc reporting in Tableau.

Data Analyst - Robert Bosch, India

Nov 2017 – June 2019

- Developed & managed an ETL data pipeline that enable flow of vehicle diagnostic data using SSIS. Created, modified packages in SSIS as per requirements. Imported large volumes of data from variety of sources, systems including Teradata, Oracle.
- Designed **MLOps** processes and deployed a machine learning application that predicted the criticality of run-time errors in engine software (AUS-ROC 92%), as a web endpoint using **AWS Fargate**, which improved process efficiency by 40%.
- Built multiple reports in Power BI by conducting data mining, data wrangling & exploratory data analysis using Python that helped identify
 process compliance risks saving ~3M dollar revenue.
- Project Management: Conducted Scrum meetings, used Agile SDLC methods, conducted code reviews, delivery planning & estimation.

Data Analyst – Verizon Data Services, India

July 2016 - Nov 2017

- Created workflows based on custom business requirements using PL/SQL code, complex SQL queries involving triggers, functions, joins & procedures, and integrated them with the Clarity project management tool using XML & gel script.
- Improved the efficiency of large-scale business processes in Clarity by 21% by optimizing SQL queries to enable faster retrieval of records.
- Designed periodic dashboards, ad-hoc custom reports using SQL, Jaspersoft & Power BI to monitor KPIs saving 45 man-hours per week.
- Created an automated CI/CD pipeline tool 'DevOps Suite' using Java & Jenkins, which helped in reducing overall lead time by 35%.

ACADEMIC PROJECTS

Propensity to Respond Model – Customer Behavior Segmentation | R, SMOTE, Random Forest, XGBoost, LASSO Regression

• Built classification model to predict likely behavior of customers at VMWare by applying Random Forest, XGBoost models with 98.9% recall.

NLP - Text Mining of Online Physician Reviews | Python, R, Gensim, Topic Modelling, Natural Language Processing

• Extracted reviews, performed feature engineering, identified & quantified effect of key factors on ratings using Linear Regression Algorithm.

ETL Process - Data Analysis on Live Music Events in UK | Python, PostgreSQL, Tableau, PySpark, Selenium

• Designed an ETL pipeline for large unstructured data, ingested transformed data in PostgreSQL data mart, for deriving inferences in Tableau.

Product Recommendation System | Big Data, Collaborative Filtering, Matrix Factorization, PySpark

Analyzed 500k reviews & built Recommender System for Amazon fine foods by applying ALS Matrix Factorization model with RMSE 1.204.