Abhigna Ramamurthy

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EXPERIENCE

McKinsey & Company, Boston, USA — July 2022 - Dec 2022

Data Scientist – Consulting, Product Analytics

- Implemented a high-priority product analytics project to identify drivers of adoption, trends analysis, user journey, and attribution analysis by applying machine learning techniques with a 90% accuracy rate, and a 15% potential increase in product uptake.
- Drove data initiatives like predictive model development using SQL database creation in Snowflake, ETL of large datasets, feature engineering, and optimization to handle imbalanced datasets for classification algorithms with evaluation metrics.
- Improved the data governance structure for product analytics projects in the team by curating multiple data sources by leading data stewardship initiatives, in turn increasing the model accuracy by 15%, and showcased results in innovative interactive dashboards.
- Achieved outreach augmentation to streamline user retention measurement which the management team has implemented as part of data flow, based on the recommendations from the project.

PwC, Melbourne, Australia — July 2019 - Aug 2021

Senior Implementation Specialist – Consulting, Business Analytics

- Led the configuration team of 3 in various tax compliance projects for multiple international clients worth $1M each.
- Implemented real-time tax calculations for clients by redefining the business process to improve the throughput by 80%.
- Increased the software adoption rate by 30% by implementing performance enhancement projects.
- Worked with international clients on-site for requirements gathering along with conducting research, and feasibility analysis.

Cerner Corporation, Bengaluru, India — Jan 2016 - May 2017

Software Engineer – Health care IT, Software Development

- Executed a Business Process Automation for validating test scripts and automated formatting tool for CCL (Cerner Command Language) scripts reducing 2-10 hours of manual work during the internship to improve the competitive positioning of the tool.
- Optimized breast cancer radiology software enhancement and bug fixing as a part of live project support to the clients for EHR.
- Created automated test scripts for integration testing in Jenkins.

EDUCATION

Northeastern University, Boston, MA — Sept 2021 - Current

Master Professional Studies in Analytics, GPA 3.97

(Probability and Statistics, Predictive Modeling, Machine Learning, Big data Analytics, Applications of AI)

Monash University, Melbourne, Australia — July 2017 - May 2019

Master of Business Information Systems, GPA 3.0

(Enterprise Systems, Project Management, UI design and Usability, Business Process Modelling, Data Science Fundamentals)

Amrita School of Engineering, Bengaluru, India — Aug 2012 - May 2016

Bachelor of Computer Science and Engineering, GPA 9.20

(Operating Systems, DBMS, Software Engineering, Object Oriented Programming, Data Structures)

TECHNICAL SKILLS

Data Analysis: Python (pandas, NumPy, ML packages, NLTK, TensorFlow), R, C#, JavaScript

Data Management: AWS S3, Redshift, SQL, Snowflake, Alteryx, MongoDB, SAP HANA, ETL, STAR schema, Spark, Hadoop

Statistics & Machine Learning: Regression (linear, sparse, logistic, regularized), Classification (Random Forest, KNN, SVM), Clustering techniques (K-Means), Time series analysis (OLS, GMM, ARIMA, MLE), Bagging & boosting trees, Neural networks, A/B testing.

Data Visualization: Tableau, Power BI, RShiny, Plotly, Seaborn, Matplotlib, Ggplot2, UML

Project Management and Productivity Tools*:* Waterfall, Agile Methodology-SCRUM, Scheduling, JIRA, GitHub, MS Project, Excel

SELECTED ACADEMIC PROJECTS

Student dropout prediction (Company: SiliconValley4u)

Modeled real-time student data with 50+ features to identify significant factors to dropout through multivariate regression models in Python by querying database in SQL and showcased the results using Tableau visualizations and interactive interface using Streamlit UI.

Revenue and marketing strategy for start-up (Company: Uzephra)

Devised growth strategy for the startup by quantifying through three dimensions of user growth and satisfaction survey data, and revenue models built based on web scrapped projections of similar start-ups and presented to the business stakeholders.

Boston House Price Prediction – End-to-end Machine Learning Implementation

TechStack – Python, GitHub, VS Code, Jupyter Notebook, Flask, Heroku, Dockers.

Developed an end-to-end machine Learning model implementation and deployment to predict Boston housing prices in Python, as I start to look for buying my own home and this helped me get an idea of how the market is using linear regression and deployed on Heroku.