Prathmesh Savale

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Education

The University of Texas at Austin May 2023
Master of Science, Business Analytics, 3.8 GPA

University of Pune May 2015
Bachelor Degree, Computer Engineering, First Class with Distinction - 8.4 CGPA

Skills

Programming: Python, PySpark, R, SQL, LookML, Bash
Computational programming: numpy, pandas, matplotlib, tidyverse, Scikit-learn, Statsmodels, Keras
Statistical Analysis: Regression, Classification, Bagging, Boosting, Ensemble, Time Series Analysis, Hypothesis - testing, Neural Networks, Unsupervised learning, A/B testing, Forecasting, Generative Models, Optimization
Tools and deployment: Jupyter, Snowflake, Spark, Git, Looker, Apache Airflow, AWS (EMR, EC2), Jenkins, JIRA

Experience

HP Inc.- *Data Scientist, Bangalore, India* January 2021–June 2022
- Increased Smart Advance adoption rate by 13% and retention by 30% on HP Smart App using descriptive analytics
- Mentored 8 team members on LookML development and partnered with 5 cross-functional teams to deliver HP Smart App usage reports to the global head of HP Print Software and Future Product Marketing
- Collaborated with 2 marketing directors to devise customer cohorts using unsupervised learning to target top 5% power users translating to the expansion of HP Instant Ink and Smart Advance subscriptions by 13%
- Performed A/B testing on HP Smart App coach marks and value proposition to improve app user experience

Fosfor LTI - *Data Science Specialist, Bangalore, India* May 2020–January 2021
- Led a team of 4 data scientists and developed a novel anomaly detection module for Lumin using PySpark
- Deployed the PySpark data pipeline for the module to run on AWS EMR with auto scaling using apache airflow

Kiewit Corporation - *Data Science Consultant, Bangalore, India* October 2018–May 2020
- Enhanced throughput of Kiewit's Buckskin Mine by 12% using LSTM networks to preemptively anticipate breakdown of the coal-carrying Caterpillar haul trucks and minimized downtime of repairs by 30%
- Additionally improved the predictive maintenance model by 10% using feature engineering to create rolling, tumbling, and hopping aggregates from the truck's streaming sensor data to capture temporal patterns
- Used SHAP values to identify features that contribute to the maximum number of breakdowns
- Developed a text classification framework for Kiewit finance using LSTM and GloVe to tag commodity procurement invoices with SAP Ariba taxonomy, helping verify expenditure and reduce fraudulent supplier claims by 20%
- Deployed the solutions on premise using tensorflow/serving and flask API

Mu Sigma Inc.- *Decision Scientist, Bangalore, India* September 2015–October 2018
Tesco (UK)- Bus One Forecast November 2016–October 2018
- Devised a time series-based ensemble to forecast sales across multiple product categories with an accuracy of 98%
- Included adjustment for external regressors like holidays and used forecast scaling for store closures which helped improve the overall company level forecast accuracy by 5.6%
- Formulated methods to decrease runtime of grid search for parameter tuning and parallelized model building for 2500 retail stores and 3600 products supplementing PySpark to diminish execution time by 70%
- Used test driven and collaborative development to maintain an error free CI/CD pipeline on premise

Apple (US) - Repair Center Operations and Analytics September 2015–November 2016
- Mined data across multiple sources to find the root cause of dead on arrivals and loopers (device failures)
- Created a tree based ensemble to predict propensity of device failures, leading to a 3% reduction in failure rate
- Proposed cascading classifiers to help predict the rarer class and minimize false positives by 15% during prediction
- Deployed the analytical solution utilizing Bash, Turi Create and Jenkins saving approx 40 person-hours each week

Additional Information

Work Eligibility: Extended eligibility to work in the U.S.; will require visa sponsorship for long-term employment