

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, 3.8 GPA

Skills

Programming: Python, PySpark, R, SQL, LookML, Bash

Computational programming: numpy, pandas, tidyverse, Scikit-learn, Statsmodels, TensorFlow, PyTorch, Gurobi

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: Docker, Elastic Search, Spark, Git, Looker, 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