Prathmesh Savale

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Education

The University of Texas at Austin — May 2023
Master of Science, Business Analytics, 3.7 GPA
Coursework: Advanced Machine Learning, Optimization, Deep learning, Unstructured Data Analytics

University of Pune — May 2015
Bachelor of Engineering, Computer Engineering, First Class with Distinction, 3.8 GPA
Coursework: Database Management Systems, Data Structures and Algorithms, Object Oriented Programming

Experience

Walmart Global Tech - *Senior Data Scientist, Austin, TX, US* — October 2023–Present
- Led the development of a sales forecasting framework at Sam's Club AI Labs for Merch Finance, improving financial and merchandising strategies with precise sales value and unit analysis
- Designed a constraint based causal discovery framework for generating what-if scenario simulations, enhancing forecasting and strategic planning by identifying key causal factors affecting sales and units
- Created a model-agnostic "Explainer" tool to assess the impact of promotions, pricing, holidays, macroeconomic factors, and inventory on sales, integrating causality to enhance analysis and optimize decision-making

HP Inc.- *Data Scientist, Austin, TX, US* — May 2023–October 2023
- Collaborated with marketing VP to devise customer cohorts using unsupervised learning to target top 5% users which expanded HP Instant Ink and Smart Advance subscriptions by 13%, generating revenue of $400K over 3 months
- Developed a LLM based chatbot to complement KPI dashboard and provide easy access to CXO level insights

US Med-Equip - *Graduate Capstone, Austin, TX, US* — January 2023–May 2023
- Achieved 98% accuracy forecasting medical equipment rentals using Vector Autoregression and PySpark, saving $2M in lost rentals annually by decreasing turndowns and increasing availability across different regions in the US

HP Inc.- *Data Scientist, Bangalore, India* — January 2021–June 2022
- Used Bayesian A/B testing on HP Smart App coach marks and UI to increase retention rate by 8%
- 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

Kiewit Corporation - *Data Science Consultant, Bangalore, India* — October 2018–Jan 2021
- Enhanced throughput of Kiewit's Buckskin Mine by using LSTM networks to preemptively anticipate breakdown of the coal-carrying Caterpillar haul trucks and minimized downtime of repairs by 30%, saving $1.8M annually
- Used SHAP values to identify features that contribute to the maximum number of breakdowns
- Developed a text classification framework for Kiewit finance using Word2Vec to tag commodity procurement invoices with SAP Ariba taxonomy, helping verify expenditure and reduce fraudulent supplier claims by 20%

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%, reducing value error of $4M annually

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

Skills

Programming: Python, PySpark, R, SQL, LookML, Bash
Computational programming: numpy, pandas, tidy, Scikit-learn, Statsmodels, Keras, Gurobi, Langchain
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, DataBricks, Git, Looker, Airflow, AWS (EMR, EC2), Jenkins, JIRA