Satyajit Narayanan

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Work Experience

Data Scientist. Tanger Outlets

Ian 2019 - Present

- Leading the Data Science efforts by identifying opportunities and helping design smarter marketing campaigns.
- Designing A/B test experiments for digital marketing campaigns and analyzing their performance.
- Developed multiple dashboards used by leadership and across all 40 outlet centers to monitor performance metrics.
- **Projects:**
 - Developed a ranking model that identifies high-value customers more likely to redeem promotional coupon based on various behavioral variables using XGBoost, leading to a 30% increase in coupon redemptions YoY.
 - Collaborating with external partners to extract itemized information from customer receipt images using OCR and an RCNN field classification model on PyTorch to enrich & monetize customer data.

Data Analytics Intern, CUNA Mutual Group

Jun 2018 - Aug 2018

Developed an R Shiny tool to automate cleaning of different data streams and flagging potential data discrepancies leading to ~60% increased efficiency of data quality checks for the Data Stewards

Decision Scientist, Mu Sigma Inc.

Aug 2014 - Mar 2017

- Enabled Fortune 500 clients to solve business problems by framing the methodology, coding the solution, making inferences from analysis, & communicating recommendations to clients
- Worked with account leads and the Sales team on business development activities and secured a pilot project.
- Received a Spot Award for formulating analyzing strategy and successfully executing a pilot project.
- **Projects:**
 - Customer Segmentation Analysis: Created customer behavioral segments to better target advertisements based 0 on store visit patterns using K-means clustering, leading to a 2% increase in the overall ad click-through rate.
 - Campaign Performance Measurement: Calculated the effect of marketing campaigns on revenue and the quantity of auto parts sold using predictive analytics (forecasting).
 - Pricing Recommendations: Developed an optimal pricing strategy and designed experiments (A/B Testing) simulating demand to recommend revision of prices for 600 auto parts, leading to an 11% increase in profits.
 - Product Launch Analysis: Led a team of 5 data scientists to identify factors determining the marketing potential of generic pharmaceuticals, as well as new markets in which to invest, using a random forest algorithm.

Projects

- Lenovo Predicting Customer Satisfaction using Customer Sentiment: Predicted Net Promoter Score (NPS) of products based on their online review using Principal Component Regression analysis with a 6% error rate
- Recommendation Engine: Created a tool to predict movies a user would watch using the Collaborative filtering model (Pandas, NumPy & Sklearn). Visualized it as an interactive dashboard on a Jupyter notebook using iPython widgets.
- Twitter Sentiment Analysis: Predicted airline sentiment from tweets using a supervised lexicon-based approach with an accuracy of 73%. Implemented the Naïve Bayes and Decision Tree algorithm.

Education

Master of Operations Research (MOR), North Carolina State University, USA [GPA: 3.97/4.0] Aug 2017 - May 2019 Master of Arts (M.A.), Economics, University of Mumbai, India Aug 2015 - Mar 2017

Bachelor of Technology (BTech.), Civil Engineering, Veermata Jijabai Technological Institute, India

Jul 2010 - May 2014

Skills

DB + *Cloud*: SQL Server, AWS (S3, Redshift, EMR), Hadoop (MapReduce, Hive), Azure Databricks, Azure ML, Docker

Programming: Python (NumPy, Pandas, SciPy, Sklearn, Keras, OpenCV), R, SAS, Stanford CoreNLP, NLTK

Analytics: PowerBI, Rshiny, Jupyter, Tableau, Matplotlib, GGplot, Seaborn