

Onkar Deshpande

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OBJECTIVE

Looking for full-time opportunities in Data Science and Machine Learning, where I can apply my 2+ years experience in predictive analytics as well as leverage my background in statistics.

EDUCATION

Master of Science, Applied Mathematics and Statistics 2017 - 2018 (Expected)

Stony Brook University, NY

Coursework: Probability, Data Analysis, Regression, Categorical Data Analysis, Big Data, Survival Data Analysis

B.Tech-M.Tech (Honours) Industrial Engineering 2010 - 2015

Indian Institute of Technology, Kharagpur, India

TECHNICAL SKILLS

- Programming Languages - Python (pandas, numpy, scikit-learn, matplotlib), R, MATLAB, SQL
- Machine Learning - Decision Trees, Ensemble Methods (LightGBM, RF), Support Vector Machines, Linear/logistic Regression, Clustering, Dimensionality reduction, Neural Networks, NLP
- Tools and Databases - Git, HTML, Google Cloud Platform, MongoDB, Kafka, Spark, MySQL, Teradata

EXPERIENCE

Data Scientist - Intern May 2018 - August 2018

Express Scripts Inc, St Louis, USA

- Worked in Enterprise Data Science Team
 - Built three therapy level linear predictive models for member engagement as a part of clinical technology product
 - Engineered new features to accommodate for historical alterations in member medical claims data
 - Projected revenue of \$ 20M in the next two years; the models will go in production in January 2019

Data Scientist

November 2016 - July 2017

Affine Analytics, Bangalore, India

- Worked for client, **Sears Holdings**
 - Implemented gradient boosting method (LightGBM) to build a logistic classifier (Dataset size: 1 Million) to output purchase propensity of the member to visit store next month for a business unit
 - Engineered new features by building embeddings thereby encrypting the buying pattern of a member, improving model accuracy by 4%
 - Built a gradient boosting model to capture the member engagement over mailers sent for Shop-Your-Way, Sears and K-Mart separately

Senior Analytics Engineer

July 2015 - November 2016

Robert Bosch, Bangalore, India

- Implementing supervised and unsupervised Machine Learning algorithms to solve different business problems
 - Developed a two stage SVM model (0.92 precision, 0.96 recall) to identify anaemia severity by using data from non-invasive sensors; Used agglomerative clustering to tackle class imbalance in the data; Part of research project at John Hopkins University
 - Identified Anomalies in vehicle test data files using Kullback-Leibler divergence; Implemented the solution in Apache Spark
 - Engineered a regression model to classify the dispensed beverage through signal taken from the vibrations of coffee vending machine and predicted raw material requirements; Used Independent Component Analysis (ICA) technique to remove noise from the data
- Building tools useful for the department as a part of Centre of Excellence team
 - Simulated thousands of vehicles under a python environment to generate data input to the big data architecture via Kafka. This model was used to organize an internal Hackathon on Vehicle Telematics
 - Built a tool for internal use in R to accommodate for forecasting techniques like exponential smoothing, ARIMA and Holt-Winters along with data preprocessing modules

PROJECTS

Hypothesis testing

Data Analysis

- Analyzed credit card data for different hypothesis testing; Used ANOVA, Multivariate regression to identify factors for credit limit, default rate and analyze buying patterns over six months period.

Movie Recommender

Fundamentals of Computing

- Implemented machine learning models from scratch on movie-lens data set. Compared performance of three different models: Collaborative filtering, K-means, hybrid model.