Vivekpandian Veerapandian

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Data Scientist with **3-years of experience** in recommending data-driven business solutions by building Linear and Non-Linear models. Equipped with in-depth knowledge and practice of deploying scalable end-to-end machine learning models in the Cloud.

EDUCATION

M.S., Data Science and Business Analytics , The University of Texas at Dallas
 B.E., Electronics and Communication, College of Engineering Guindy, India
 May 2011

TECHNICAL SKILLS

Programming: Python (Scikit-learn, Pandas, Numpy, TensorFlow, PyTorch, Keras, NLTK, PySpark), R, SQL, SAS

Data Visualization : Tableau, Power BI, Shiny, GGPlot2, Plotly, Matplotlib, Seaborn, Bokeh

Databases & Big Data : BigQuery, MySQL, PostgreSQL, Oracle, Graph, Redshift, MongoDB (NoSQL), Hadoop, Hive, Spark

Certifications : UDACITY Nanodegree (NLP, Data Engineering), Coursera(Deep Learning Specialization - **ANDREW NG**)

PROFESSIONAL EXPERIENCE

Senior Data Scientist, Ordermycake.in

Jan 2015 - June 2018

- Generated 18% increase in revenue to \$5k in 2017 by leveraging sentiment analysis, extracting topics and key phrases
 on customers feedback, and suggested a new payment method to solve delivery problems [Python, NLP, AWS S3, EC2]
- Identified 4500 potential churn customers by developing ML models and retained 36% by offering them discounts [R]
- Revamped coupon mailing strategy for 3 customer segments by clustering using **K-means** and identifying the most engaging coupons leading to a 12% increase in headcount [Unsupervised Learning]
- Implemented marketing campaign using A/B testing to identify effective campaign, resulted in a 30% increase in sales
- Recommended optimized price for products by web scraping and data mining to analyze competitor product prices, leading to a \$3K increase in yearly revenue
- Led a 10-member cross-functional team to build an end to end B2C platform to expand the **operations from 2 to 8 cities**, and presented findings and insights to stakeholders [**Tableau**]

Software Engineer, Cluster Wireless Software Ltd

Mar 2012 - Sept 2014

- Designed SQL queries to extract information from IoT sensor and identified anomalies by K-means clustering [MYSQL, C]
- Procured project requirements, worked on sprint planning, root cause analysis, code reviews and collaborated with clients based out of different locations globally

INTERNSHIP EXPERIENCE

Data Science Intern, SuperWorld, United States

Sept 2020 – Present

- Predicted the likelihood of a purchase from clickstream data using Decision Tree and optimize the model by adding new features to improve the precision rate to 76% [Python, Google Analytics]
- Developed an interactive web app in R-shiny that does real-time end to end sentiment analysis of SuperWorld's tweets

PERSONAL PROJECTS (DATA SCIENCE)

Music Library Database Design, Data Modeling and Data Storage

SQL, Python, AWS, Redshift, S3, Spark

- Designed a star-schema based music database on Amazon Redshift, **built ETL pipeline** to extract raw data from S3 bucket into a staging area in Redshift and transformed it to build the database using data warehousing, SQL and Python
- Developed data lake for big-data analytics that reads data from S3, processes using Spark, and writes parquet files on S3

Document Classification using Deep Learning

Python, Natural Language Processing, GCP, PyTorch

- Leveraged web scrapping to scrape 30k news articles, extracted features by pre-training Word2Vec, BERT embeddings
- Implemented Convolutional neural network model to classify documents into 4 categories & achieved 92% accuracy

Vehicular Injury Predictive Model for New York City

Python, Statistics, Regression

 Performed hypothesis testing, deviance & multi-collinearity tests to estimate association of 19 features in road-collision, implemented Generalized Linear Model(GLM), and found 70% high risk for pedestrian & 92% risk for motorist

Credit Card Fraud Detection

Python, Supervised learning, Classification

Performed quantitative analysis and feature selection. Experimented with algorithms like SVM, KNN, Naïve Bayes,
 Random Forest, and Neural Networks with SMOTE resampling using PySpark to predict fraud and achieved AUC of 0.82