Nishant Sharma

Data Mining Analyst

Proficient Computer Science engineer, and a Masters graduate in Information Systems with over 2 years of professional experience using data analytics and machine learning to translate business requirements into scalable and highly resilient system solutions.

Experience

Jun 2017 - present

Data Mining Analyst

Member Ken(Amida Solutions LLC) *McLean, Virginia*

- Developed Tableau Dashboards using Google analytics to get actionable insights on a local Ngo' e-commerce store.
- Developed and instituted MS SQL scripts and queries for further analysis and reporting on patient healthcare records.
- Conducted data pre-processing and exploratory analysis(using python) on patient health records to eliminate outliers and uncover valuable trends/correlations,which helped in designing the initial build of disease monitoring application.
- Conducted data modeling using SVM's,gradient boosting and random forest on attributes highly correlated with diabetes like skin thickness,BP and insulin levels to further classify patients with high risk of developing diabetes, recently achieving a highest predictive accuracy of 86%.

Jan 2015 - Dec 2015

Business Intelligence Analyst

Life Insurance Corporation of India(via Sriyaan Tech) *Mumbai (India)*

- Worked with insurance agents and helped develop a mobile application on android that automates insurance calculations for LIC (Life Insurance Corporation of India).
- Developed custom SQL queries in MS sql server and connected it to Tableau to build relevant dashboards to show essential insurance market trends.
- Coded multiple business logics in java, and deployed the app on google playstore, which gained over 200 license purchases from insurance agents within the first 4 weeks of its deployment.

Jun 2014 - Aug 2014

Summer Analyst Intern

Deutsche Bank *Mumbai (India)*

- Conducted Q/A sessions with key bank employees to collect information on business processes and user requirements.
- Documented and created 2 process flowcharts for Mortgages and Commercial credit products, which improved the internal processing time of new applications by about 15%.

Projects

Credit Risk Modeling Using Machine Learning (Python,Jupyter)

- The goal of this project was to use supervised risk prediction techniques to predict whether a customer will default on its credit payments or not.
- Trained a feedforward deep neural network and ensemble methods like gradient boosting, AdaBoost and random forest; and finally compared their performance with respect to accuracy, precision, recall, and f1 score.
- Performed Grid Search 10 fold Cross Validation and fine-tuned essential parameters for Gradient Boosting model, which achieved the highest prediction accuracy of 82.3%.

Personal Info

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Github

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LinkedIn

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Programming Languages:

Python

R

SQL

Machine Learning/Data Science libraries

scikit-learn

Advanced

NLTK

Pandas

Advanced

Numpy

Matplotlib

Seaborn

caret/randomForest

US 2016 Election polls Analysis and Predictions(R, RStudio)

- Worked on FiveThirtyEight 2016 presidential polling dataset, to build a model, which would predict the winner accurately.
- Using Cross Validation, trained three optimal classification models namely artificial neural network, support vector machines and naive Bayes.
- Compared the three models using Machine learning Benchmark package and selected SVM model as it was successful in predicting the winner of 2016 presidential elections with an accuracy of 85%.

Education

Jan 2016 - Dec 2017 **New Jersey Institute of Technology,Newark,NJ**
Master of Science: Business & Information Systems
Data Analytics Track (cross-registered with **Rutgers Business School**)
GPA-**3.85**

Jun 2011 - Jul 2015 **Manipal Institute of Technology,Manipal, Karnataka(India)**
Bachelor of Science: Computer Science

Certificates

Sep 2017 Udacity Machine Learning Engineer Nanodegree

Aug 2016 Simplilearn Certified Data Scientist (License #192141)

Apr 2017 Market Motive Certified Web Analytics Practitioner

BI/Analytics/Cloud tools

Tableau Desktop

Microsoft SQL Server

Google Analytics

Google Bigquery