VINOTHINI PUSHPARAJA

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OBJECTIVE

A go-getter, passionate about solving real-world problems using statistic models, flexible in utilizing various machine learning and AI techniques in a fast-paced environment. My goal is to be the go-to person wherever data holds the key to solving a problem, however complex/challenging it may be.

EXPERIENCE

Data Visualization Analyst (Part-time) | Ayiti Now Corp (Haiti Now)
August 2018 – Now

- Collaborated with project management and the team to understand the requirements, layout and look and feel of the dashboard to be developed, in order to ensure the visualization, meet the needs.
- Generated interactive Tableau dashboards from a wide range of data to deliver analytic driven insights.
- Articulate compelling story based on the insights derived from the data with charts and graph.
- Managed time effectively and prioritize tasks in line with the needs of the team and organization.

Software Engineer | Data Scientist | Wipro Technologies Ltd
June 2014 – June 2016

- Implemented and came up with new strategies based on the insights and comparisons from the global team which resulted in enhancing the performance of the team of around 15 people.
- Implemented machine learning and data mining techniques like K-NN, Naïve Bayes etc. to improve existing predictions of user's TV content search from search queries for a large amount of data.
- Work closely with development teams to ensure accurate integration of models into firm platforms.
- Developed recommendation systems for small scale experiments and scale it up to millions of records.
- Resolved and troubleshot issues escalated by customers and internal systems, identified, developed, implemented and deployed appropriate solutions to ensure system integrity.
- Acquired knowledge of using tools like Python, SQL, Java, Shell commands, Linux, Perforce, BugBase, Jenkins, Code collaborator & Agile Tools (Jira).

EDUCATION

MS in Data Science with Concentration in Business Analytics | Saint Peter's University
AUGUST 2016 – MAY 2018, GPA: **3.91**
COURSEWORK: Statistical Programming (SAS, R), Data Visualization (Tableau, Python), Data Mining (AWS, PostgreSQL), Data Analysis (Applied Statistics), Machine Learning (R), Database & Data Warehousing (RDBMS), Big Data Analytics (Hadoop), Marketing Analytics (Python), Predictive Analytics and Financial Modeling (R).

BE in Computer Science Engineering | Anna University
JUNE 2010 – APRIL 2014
COURSEWORK: Data Warehousing and Data Mining, Artificial Intelligence, Software Engineering, Design and Analysis of Algorithms, Data Structures, Database Management Systems, Object Oriented Programming.

EXPERTISE

- Machine learning/AI: Python (Scikit-learn, Pandas, Numpy), NLTK, Neural Network, CNN, RNN
- Data Visualization: Tableau
- Database: MySQL, PostgreSQL
- Data Analytics: SAS, R
- Big Data: Hadoop, Hive, AWS (S3 | EC2)
- Other: Excel (Pivot Tables | VLOOKUP | Macros), Git, HTML, CSS, Google Analytics

PROJECTS

Patient length of stay prediction | Saint Peter's University-Hackathon 2018 (Won) | October 2018
Worked as a team to perform exploratory analysis and descriptive analysis using regression techniques to predict the ideal length of stay of a patient, in order to avoid the entire cost of readmission of patients in hospital within 30 days of discharge. Our approach and analysis resulted in winning the Hackathon 2018 title. Tools: Python, Tableau. Click the link to view the Tableau workbook: Patient Ideal LOS.

Yelp Restaurant Image Classification | Saint Peter's University | January 2018 – May 2018
Multi-label classified 2,000 restaurants considering 237,000 images using machine learning models. The models were tested with 10,000 restaurants with 1.2 million images. Features for the models were extracted from images by pre-trained deep neural network called RNN. Machine learning models were trained, and the model's performance was tested based on accuracy, precision and recall. Tools: Hadoop, Keras, Scikit-learn, Numpy.

Bag of Words meets Bag of Popcorn | Saint Peter's University |September 2017 – December 2017
For IMDB movie reviews, performed sentiment analysis for each review using Bag of Words model. Utilized Bag of Words a Word2Vec method to understand the meaning and semantic relationships among words. Validated and tested top 5000 words on machine learning models like random forest, logistic regression and Support Vector Machine (SVM). Tools: Python, NLTK.

Predicting Stock Prices using Time-Series and Neural Nets | Saint Peter's University | September 2017 - December 2017
In this project, we built a time series model based on quarterly results of the healthcare industry. Different variables like assets, market cap, P/E ratio. 20 Quarterly results have been analyzed and portfolio has been created with five buckets. A model with neural nets has resulted in better predictions. Used R statistical software for effective analysis by hypothesis testing to validate data and interpretations. Tools: R.

Safe and Smart Parking | Solaria Labs, Liberty Mutual | January 2017 – May 2017
Demonstrated our strategies and analytical ability by gathering and joining data on public garage and street parking locations to predicting safer parking location to the driver/user. We utilized Logistic regression to predict whether the location is safe or not. Our work was greatly appreciated for problem solving, presentation, brainstorming skills and a drive to succeed Tools: R, R Shiny, Leaflet package.

Visualization of Olympics Data 1896 – 2008 | Saint Peter's University | January 2017 - May 2017
Created Tableau Dashboard with interactive views, quick filters, & drill downs, to visualize Olympic medals obtained country wise from the year of 1896 – 2008. Click the link: Olympics1896-2008 & Olympics Workbook.

LICENSES & CERTIFICATIONS

Machine Learning | Stanford University | Coursera | January 2019
Machine Learning by Stanford University on Coursera. Certificate earned at Thursday, January 24, 2019. Link