

HARISH PUVVADA

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EDUCATION

New York University - Tandon School of Engineering, New York, NY
Master of Science in Computer Engineering, GPA: 3.68

Amrita University, Bangalore, India
Bachelor of Technology in Computer Engineering, GPA: 3.7

SKILLS

Programming Languages : Python, Java, C++, JavaScript
Database Platforms : MySQL, PL/SQL, MongoDB
Big Data : Hadoop, MapReduce, Pig Latin, Spark SQL, Spark MLlib, Tableau, D3.js
Libraries : Scikit-learn, Pandas, Numpy, Matplotlib, Scipy, SeaBorn, keras
Tools and Technologies : AWS (S3, EC2, DynamoDB, VPC), GIT, SVN, PyCharm, Jupyter Notebook, Wireshark, Docker

CERTIFICATIONS

- AWS Associate Developer certification, Amazon April 2018

RESEARCH PROJECTS

Bitcoin Price Prediction (Big Data, *Python, Java, Pandas, SparkML, SparkSQL, Neural Networks*)

- Predicted Bitcoin prices on hourly basis by identifying correlation between market sentiment and twitter sentiment.
- Extracted tweets and bitcoin prices using Twitter REST and Coin Desk APIs.
- Used Spark SQL for data pre-processing and Spark MLlib, Recurrent Neural Networks(LSTM) for time series forecasting.

Loan Default Prediction (*Python, Pandas, Seaborn, plotly, Machine Learning*)

- Performed exploratory data analysis on Lending Club company's dataset to find patterns using Seaborn, plotly visualizations.
- Implemented Random Forest, Logistic Regression, MLP algorithms for predicting if a customer will default the loan or not with an accuracy of 84% and False Negatives of less than 1%.

Twitter Bot or Not (*Python, Pandas, Numpy, Seaborn, Machine Learning*)

- Classified twitter profiles as "Bots" or "Human" using Machine Learning algorithms based on the attributes like name, location, verified, etc. to achieve an accuracy of 91%.
- Implemented Grid Search, Bagging and Boosting techniques to increase accuracy by almost 2%.

Data Wrangling Yelp's JSON Data (*Pig Latin, PySpark*)

- Imported Yelp business JSON data, cleaned and found out most common restaurant types for selected states/provinces.

WORK EXPERIENCE

NYU Computer Science and Engineering Department, Brooklyn, NY

September 2017 – May 2018

Graduate Teaching Assistant

- Developed Networking labs on NYU Private cloud and held office hours for graduate level Computer Networks course.

New York City Transit, New York, NY

May 2017 – August 2017

Software Engineering Intern (JavaScript, jQuery, twitter typeahead.js library, MySQL)

- Engineered a search engine to speed up employee access to the protocol manual for service strategies.
- Decreased processing time to access the data by 90% throughout the department.
- Contributed in writing test scripts for Automatic Announcement System(AAS) which reduced manual effort by 50%

NYU Technology Management and Innovation Department, Brooklyn, NY

September 2016 - April 2017

Graduate Research Assistant

- Developed a Web application using Python, D3.js, jQuery and MySQL for Human Computer Interaction research.
- Created surveys using Qualtrics and JavaScript, analyzed and visualized the survey data using Tableau.

Tata Consultancy Services Ltd, Mumbai, India

June 2015 - July 2016

Backend Developer (Java, MySQL)

Project: Enterprise Resource Planning(ERP) - Finance and Accounting for more than 200 clients in India.

- Responsible for requirement gathering from clients and developing design solutions.
- Performed root cause and impact analysis and ensured the production defects were resolved within specified SLAs.
- Optimized MySQL stored procedures to reduce buffer time for On Demand Reports (ODRs).

MASTERS COURSE WORK

Design and Analysis of Algorithms, Programming for Big Data Analytics, Data Center & Cloud Computing, Machine Learning, Data Science

ACHIEVEMENTS

- Google developer challenge scholarship - 2018 recipient.