HARISH PUVVADA

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EDUCATION

New York University - Tandon School of Engineering, New York, NY   May 2018
Master of Science in Computer Engineering, GPA: 3.67/4

Amrita University, Bangalore, India   May 2015
Bachelor of Technology in Computer Engineering, GPA: 3.7/4

RELEVANT COURSE WORK

Design and Analysis of Algorithms	Foundations of Data Science	Machine Learning
Programming for Big Data Analytics	Data Structures and Algorithms	Data Visualization

SKILLS

Programming Languages: Python, Java, C++, C
Web Development   : HTML5, CSS3, JavaScript, AJAX, PHP, JSON, D3.js
Database Development   : MySQL, PL/SQL
Data Analytics   : Hadoop, MapReduce, Pig Latin, Spark SQL, Spark MLib, Tableau
Libraries   : Scikit-learn, Pandas, Numpy, Matplotlib, Scipy, SeaBorn, keras
Operating Systems   : Linux, Mac OS, Windows
Tools and Technologies   : Git, PyCharm, Jupyter Notebook, Visual Studio, Wireshark, MATLAB, Qualtrics, Docker

WORK EXPERIENCE

NYU Computer Science and Engineering Department, Brooklyn, NY   September 2016 - Present
Teaching Assistant
- Developing virtual labs on NYU Vital, grading exams for graduate level Computer Networks course.

New York City Transit, New York, NY   May 2017 – August 2017
Software Engineering Intern
- Designed and implemented a search engine to speed up employee access to protocol manual for service strategies using **JavaScript**, **AJAX** and twitter **typeahead.js** library.
- Developed an application through which Automatic Announcement System for trains can be tested easily.

NYU Technology Management and Innovation Department, Brooklyn, NY   September 2016 - April 2017
Graduate Research Assistant
- Designed a Web application using **Python**, **D3.js**, **PHP** and **MySQL** for Human Computer Interaction research.
- Created surveys using Qualtrics and JavaScript, analyzed and visualized the survey data.

Tata Consultancy Services Ltd, Mumbai, India   June 2015 - July 2016
Developer
- Involved in application development using combinations of Core **Java**, **JavaScript** and **AJAX**.
- Resolved critical defects in the application and optimized **MySQL** stored procedures to reduce the buffer time for On Demand Reports.

ACADEMIC PROJECTS (https://github.com/harishpuvvada/)

NYU Team Up (*Django, Python and JavaScript*)
- Designed a crowdsourcing platform where users can create accounts, post/comment/like projects and create/pledge projects.
- Implemented functionalities like to connect with other users, populate news feed and propose recommendations.

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 Forests, 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%.

Bitcoin Price Prediction (*Python, Java, Pandas, SparkML, SparkSQL, Big Data, Neural Networks*)
- Predicted Bitcoin prices on hourly basis by identifying correlation between market sentiment and twitter sentiment.
- Used Spark SQL for data preprocessing and Spark MLib, Recurrent Neural Networks(LSTM) for time series forecasting.

MIPS Processor (*C++*)
- Implemented an instruction-level simulator for Single cycle MIPS processor using C++.
- Simulator can support a subset of the MIPS instruction set and model the execution of each instruction.

ACHIEVEMENTS
- Google developer challenge scholarship - 2018 recipient.
- Graduated with 2nd highest GPA in the department of Computer Engineering (Bachelor of Technology).
- Awarded merit based scholarship for masters at New York University.