

HARISH PUVVADA

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EDUCATION

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

May 2018

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

May 2015

MASTERS COURSE WORK

Design and Analysis of Algorithms, Foundations of Data Science, Machine Learning, Programming for Big Data Analytics, Risk Management

SKILLS

Programming Languages : Python, Java, C++, C
Web Development : HTML5, CSS3, JavaScript, AJAX, jQuery, PHP (LAMP stack), JSON, D3.js, Node.js(familiar)
Database Platforms : MySQL, PL/SQL
Data Analytics : Hadoop, MapReduce, Pig Latin, Spark SQL, Spark MLlib, Tableau
Application Servers : JBoss, Tomcat
Operating Systems : Linux (Ubuntu), Mac OS, Windows
Tools and Technologies : GIT, SVN, PyCharm, IntelliJ IDEA, Visual Studio, Wireshark, MATLAB, Qualtrics, Docker

WORK EXPERIENCE

NYU Computer Science and Engineering Department, Brooklyn, NY

September 2016 - Present

Graduate Teaching Assistant

- Developing virtual labs on NYU Vital, grading exams and holding office hours for graduate level Computer Networks course.

New York City Transit, New York, NY

May 2017 – August 2017

Software Engineering Intern

- 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%
- Technology stack:** JavaScript, AJAX, twitter typeahead.js library, MySQL

NYU Technology Management and Innovation Department, Brooklyn, NY

September 2016 - April 2017

Graduate Research Assistant

- Developed 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 using Tableau.

Tata Consultancy Services Ltd, Mumbai, India

June 2015 - July 2016

Developer

- Project:** Enterprise Resource Planning(ERP) - Finance and Accounting for more than 200 clients in India.
- Application development using Core Java, Servlets, JSP, JavaScript and AJAX.
 - 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).

ACADEMIC PROJECTS

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 which connect 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 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%.
- Implemented Grid Search, Bagging and Boosting techniques to increase accuracy by almost 2%.

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.
- 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.

ACHIEVEMENTS

- Google developer challenge scholarship - 2018 recipient.
- Awarded best performer at Tata Consultancy Services training camp.