Prachi Vagyani

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Technical Expertise

Programming Languages: Python, Java, C, C++, Data Structures and Algorithms
Web Languages: Java, JavaScript, HTML5, CSS | **Learning :** AngularJS, Node.js
Database: Microsoft SQL Server, PostgreSQL
Machine Learning: Classification, Regression, Clustering, Neural networks
Data Science: Python (pandas, numpy, scikit-learn, matplotlib, seaborn), R (ggplot2, tm, wordcloud)
Tools : IntelliJ, Eclipse IDE, Visual Studio 2017, JIRA, Git, Jupyter Notebook, Microsoft Power BI, SQL Server Management Studio (SSMS) | **Operating System** : Windows, Linux

Education

MS in Computer Science	Oakland University, MI	**3.85**	Apr 2020
BS in Computer Science	Walchand College of Engineering, India	3.25	Jun 2011

Professional Experience

Research Assistant – Oakland University, MI   May 2020 - Present
- Analyzing trends in mortality rate and contraction rate of Covid-19 by supervised machine learning technique.
- Real time data sourcing from NY Times, data preprocessing, data exploration and data visualization.
- Python, pandas, matplotlib, seaborn, GitHUB, Regression.

Graduate Teaching Assistant – Oakland University, MI   Sept 2019 - Apr 2020
- Implemented a load balancer algorithm on 'Cloud Analyst' and wrote unit test cases.
- Studied and created lab assignments for Hadoop HDFS, MapReduce.
- Provided technical guidance to senior year capstone project and graded projects.

Software Engineer Intern – Little Caesars Enterprise, Detroit, MI   May 2019 - Sept 2019
- Implemented the ML algorithm to predict completion time of 'Daily Load' job.
- Developed a real time dash board in **Power BI** to visualize the job's run time against predicted completion time. This led to reduce the total run time by 33.33%.
- Built data models by integrating MS SQL server with Power BI.
- Data sourcing from MS SQL Server by hourly scheduled SQL Server Agent job using **T-SQL.**
- Implemented quality check in MS SQL server to alert on failure of any SSRS report generation.
- Created new parametric report in SSRS service and unit tested caller report program.

Senior Software Engineer – FIS, India   Feb 2016 - Jul 2018
- As an architect, designed and developed the connection between IBM i system and Java APIs.
- Built ICE regulatory projects to compute commissions/fees for futures and options .
- Developed a project to connect ICE files with back office system on daily basis.
- Created/modified complex embedded **SQL** scripts to report the commissions and fees for all commodities.

Senior Software Engineer – HSBC Software Development Limited, India   Jun 2011- Feb 2016
- Led a team of 3 developers to carry out end to end project delivery of 'Singapore Bulk Payments' project.
- Added faster payments service in 'HSBC Global PAYplus' product for HSBC Singapore.
- Developed different customer centric and regulatory reports for FATCA USA regulations using **DB2, SQL**.

Academic Project

- Sentiment analysis of Twitter Data – Collected tweets over a movie. Cleaned and analyzed the tweets by using **Naïve Bayes** to predict public response to the movie. Categorized those in different emotions using Sentiment analysis.

- Implemented ML model to predict if customer will subscribe to term deposit using UCI archive datasets. Technologies: **Python**, Sci-Kit, Jypter Notebook, **Decision Tree, Random Forest & Logistic Regression** models.