PRATEEK SHRIVASTAVA

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Technical Profile

Languages: Python, Ruby, Powershell, TensorFlow, R, SQL, HTML5 CSS, Shell Scripting

Big Data Technologies: Spark, Hadoop, MapReduce, Hive, HBase.

Machine learning, Data Mining and Analysis: Minitab, Weka, RapidMiner

Database and Operating Systems: InfluxDB, PostgreSQL, Oracle 10g, SQL Server, MySQL, Teradata, Linux, Windows

Methodologies: Devops, Agile, Waterfall and MVC Model.

Tools: Amazon AWS, MS Azure, Jupyter notebook, Grafana, Tableau, R Studio, Putty, Autosys, Toad, SQL Developer, HP ALM, TCS Master Craft, MQJ, Service Now, ARS Remedy, HP QC, Ginger (Automation Tool), QTP, Eclipse, git.

Education

Master of Science in Computer Science (Data Science) 2017-2018
University College Dublin, Ireland.
Core Module: Machine Learning and Advance Machine Learning, Text Analysis, Information Visualisation, Data Mining, Bigdata Programming, Relational database system, Data Science with Python, R.
Secured Global UCD Student Scholarship (6000 euros).

Bachelor of Engineering in Information Technology (Hons) 2008-2012
Rajiv Gandhi Technical University Bhopal. Graduated with First Class with Distinction (1:1)

Academic Project

SuperLearnerClassifier | Machine Learning | UCD | Github Link Feb 2018 – Mar 2018

- Developed the SuperLearner stack layer classifier which works on the top of supervised learning algorithms. Stacked the prediction output of 6 base classifier like Decision tree, Bayes, KNN, Random forest etc and train the SuperLearner classifier which is an ensemble model.
- Implemented it on Zalando's Fashion MNIST dataset using Python with an accuracy of 94%. Proposed it as an extension to the Scikit learn. Also, ran the grid search for best parameters.

Credit Card Fraud Detection| Neural Network | UCD Mar 2018 – Mar 2018

- Pre-processed the Credit Card fraud data from Kaggle and build the Neural Network model on this dataset using Python TensorFlow libraries. Detected the fraud transaction with 84% accuracy.

Weather Analysis | Python | UCD | Github Link Jan 2018 – Feb 2018

- Developed the Python code for fetching JSON data from the Open Web API for current weather using the API key and defined parameters to parse the JSON objects into CSV.
- Ran statistical analysis on pre-processed data of weather changes (rainfall) for Northern and Southern hemisphere and visualized them using Python Matplot & Plotly libraries.

Topic Detection & Tracking of online Breaking News | Text Analysis | UCD Research Team Dec 2017 – Jan 2018

- Pre-processed the New York Times online news article data using Python packages like BS4 (Beautiful Soup), NLTK, pandas and NumPy. Built K means clustering model to cluster the news article of same kind.
- This enabled user to read the specific topic-oriented news and avoided the mix bunch of news.

GapMinder World visualisation using D3.js | Information Visualisation | UCD Github Link Nov 2017 – Dec 2017

- Recreated the GapMinder World visualisation with mouse hover functionality on life expectancy rate vs GDP for the various countries in the range of year 1900 to 2016 using HTML, CSS, SVG and D3.js.

Business Intelligence Analysis on Scatter Plots | Information visualisation | UCD Oct 2017 - Nov 2017

- Analysed the Cricket dataset using tableau and created data visualization to gather insights on how data labels and scale change the speed of comprehension in scatter plot.

Online Mobile Recharge application for Telecom Domain | LNCT Nov 2011- Feb 2012

- Developed the web-based application using MVC model on Linux platform by Implementing SDLC concepts.
- The UI of the application developed in C++ language, shows the user data in a very interactive way which is connected to the database through Controller module.

Work Experience

Coupa Software, Data Analyst, Dublin, Ireland. **May 2018-now**

- Leveraged ESD and isolation forest model to detect the anomaly in load balancer logs to identify the DOS & DDOS attacks.
- Applied Holt-Winters model on time series data for predicting the uptime for AWS deployments.
- Created a statistical model using R for analysing the customer uptime data per quarter.
- Created an automated report for customer service entitlements using Ruby and PostgreSQL.
- Created a model for getting the background job time in order to predict the time of job completion which depends upon the number of comment, approver increase in the approval chain.
- Created the dashboard for reporting the Pingdom Uptime data for all the customer instance using InfluxDB.
- Developed Ruby script for checking Pingdom configuration, creating and updating the chef data bags.

Amdocs India, Automation Engineer, Pune, India Oct 2016-July 2017

- Proposed and implemented the activity library model and MTV concepts in Unix using Ginger tool which reduced the manual work from 26 to 10-man hours.
- Created tool in shell script which gives the Server running status and error report (if down) of Payment app.
- Migrated the front end (HTML, CSS) code of legacy application using Python Beautiful Soup library.
- Integrated the Ginger tool with the CRM using CAPM API and automated the BAN status reports by Python.
- Analyzed the Billing Account Numbers using Tableau and regularly created data visualization to gather insights on customer billing data which reduced the effort by 35%.

Tata Consultancy Services (TCS), System Engineer, Pune, India. July 2012-Sep 2016

- Implemented the shell script to automate the Service Now reports and incidents, helping the end user in getting the early resolution which increased Customer Satisfaction by 10%.
- Wrote the shell script to get the periodically deactivated Customer ID and reported this to all stockholders.
- Automated the SQL script for generating the front-end API's reports to customers, reducing the manual effort by 30%. Also, defined the optimized attributes for the API reports.

Volunteering Experience:

- Organised the Technical events and quiz on the Emerging Technologies under the TCS Mobility Services.
- Hosted sessions on computer & conversational English literacy for underprivileged villagers through "Shiksha" program held in TCS MAITREE.

Additional Skills:

- **Self-Motivation:** Continuously Improving the skills in Bigdata, Hadoop, Python and R language through Udemy and Coursera. Also, developed technical projects and published on GitHub (link is given on the top).
- **Networking**: Attend various industry meetup (Dublin Meetup) and Technical fairs. Also, participated in various technical as well as cultural events to enhance my skills and network with peers.
- **Analysis and research Skills:** Being IT professional, gained very good analytical approach which leaded by the analytical work I have done during my job. Improved the R&D skills by defining new project requirements.

Honors and Extra-Curricular:

- Pitched the idea of Blockchain in money transfer domain at Deloitte Digital & Blockchain Lab Dublin.
- Represented ATT payments Table Tennis team in inter domain competition held in Amdocs.