Ritik Gupta

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EDUCATION

University of South Florida, Tampa, Florida — Graduation: Dec 2020
Master of Science in ***Business Analytics & Information Systems*** — ***GPA: 3.78/4***

RGPV, India — May 2017
Bachelor of Engineering in Computer Science — ***GPA: 3.8/4***

SKILLS AND RELEVANT COURSEWORK

Programming Languages : Python, SQL, Java, R, C#, PHP
Databases : MySQL, Oracle, Microsoft SQL Server, MongoDB
Big Data Framework : Hadoop(HDFS, Map Reduce, Pig, Hive, Sqoop, Flume)
Web Development : HTML, CSS, JavaScript, ASP.NET MVC
Version Control : Git
Machine Learning : Regression, Clustering, Classification, Temporal Modelling, Neural Networks
Coursework : Data mining, Data Science Programming, Statistical Data Mining, Big Data for Business

EXPERIENCE

AACSB International — Tampa, FL
Data Analytics/Engineer Intern — Jan 2020 – May 2020

- Automated and Optimized Data Processes using **R**,including data web scraping and algorithms for data engineering.
- Developed Dashboards and Automated Data Visualization.
- Deployed **Machine Learning** Models like **Clustering** and **Association Rule** for Business Intelligence Decisions

Tools: R, Rstudio, Tidyverse, dplyr, ggplot, Python, Scikit-learn, Machine Learning, PowerBI, Plumber API.

Wow Communications — Indore, India
Programmer Analyst — Oct 2017 to Oct 2018

- Developed Software Solutions by studying user inferential needs following **Agile** methodology
- Designed Database Systems, enhanced query performance (indexing and query optimization) along with **ETL**.

Tools: Java, NetBeans, C#, Visual Studio, Oracle SQL Developer, ASP.NET MVC, Informatica, Tableau.

Ypsilon IT solutions — Indore, India
Big Data Intern — May 2017 to Aug 2017

- Created Pipelines to ingest data from **flume** and then transform and load Into **HDFS** using **Java**
- Performed **Data Analysis** to reflect in the business application using **Map reduction, Pig scripts and Hive.**

Tools: Hadoop framework (MapReduction, Pig, Hive, Sqoop, Flume), Java, Unix Bash Scripting

ACADEMIC PROJECTS

Suspicious Image and Video Tracker — Project Link | **Fall 2019- Current**

- Flagged Suspicious Image or video activity for online proctorial space using **deep learning (CNN) using Tensorflow in Python** with various versions of the application.
- Enhanced the system accuracy with object detection algorithm to achieve 92% accuracy using **Haarcascade**

Tools: Python, matplotlib, scikit-learn, pandas, Keras, Convolutional Neural Networks, OpenCV, Tensorflow.

System Failure Detector (Anomaly Detection System) — **Spring 2020**
https://github.com/ritik777/Anomaly-detection-in-time-series-data

- Predicted System Failure on time series temperature dependent data **using Unsupervised Machine Learning**.
- Performed **Feature Engineering** and **Dimensionality reduction (Principal Component Analysis**) for preprocessing.
- Employed Machine Learning models like **Kmeans Clustering, Gaussian elliptical Curve, One Way SVM and Isolation forest** to detect outliers and then visualize time variant data.

Tools: Python, matplotlib, scikit-learn, pandas NumPy, Jupyter notebook, Unsupervised Machine Learning.

Web Scraper and Boat Price Estimator — Project Link | **Aug 2019-Dec 2019**

- Created a tool that estimates boat prices to help boat buyers negotiate and bargain for an optimal price.
- Implemented data **web scraper** using **python (Beautiful soup)** that scrapes the data on www.boattrader.com

- Performed **EDA** using **Tableau** and Optimized **Regression** models (Multiple, non-parametric, Mixed effect, Lasso) in **R** to reach the best model.

Tools: **R, R studio, Python (beautiful soup), Tableau.**