VRISHTI JAIN

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EDUCATION

- **MS in Information Technology, GPA: 3.96| Rensselaer Polytechnic Institute (RPI)** **Dec 2020**
  Coursework: *Software Development*, *Data Mining*, *Database Application and System*, *Data Analytics*, *Foundation of HCI usability*, *Intro to Machine Learning applications*, *Data Science*, *Business Issues for Engineers and Scientists*
- **B.E in in Computer Science & Engineering | Shri G.S. Institute of Technology and Science (SGSITS)** **May 2019**
  Coursework: *Data Structures*, *Database Management System*, *Software Engineering*, *Operating System*, *Object-Oriented Programming*, *Design and Analysis of Algorithms*, *System Programming*, *Distributed Computing*, *Computer Networks*, *Mathematics*

TECHNICAL SKILLS

- **Programming:** Python, C, Java
- **Web Technologies:** Flask, JavaScript, HTML, CSS, React, AngularJS, Node.js
- **Database:** MySQL, Postgresql, SQl, MongoDB
- **Machine Learning Tools:** Pandas, Numpy, NLTK, scikit-learn, TensorFLow, Keras, Matplotlib, Seaborn, ggplot
- **Tools:** Git, Visual Studio, Intellij, Jupyter Notebook, Postman, R Studio, Eclipse, NetBeans

RELEVANT EXPERIENCE

Software Engineer and Client Liaison, Johnson & Johnson **Apr 2020**

- Worked in a team of five to simplify the J&J's "New Product Development Supplier Selection Workflow Management" system.
- Improved the visibility across team members by providing them information transparency, status tracking and email notification services.
- Allowed the clients to save 80-90% of their time by automating the data collection process with a more scalable and flexible system. Microsoft PowerApps and Sheets were used, enabling easy integration with the existing system.
- Collaborated with the J&J team to analyze their requirements, scheduling meetings, establishing communication channels and developing strategies for achieving project milestones.

Graduate Teaching Assistant, RPI **Aug 2019 - Dec 2020**

- **Computer Science 1:** Responsibilities include holding lab sections, office hours, and grading for a class of 700+ students.
- **Application programming using Java:** Responsibilities include holding office hours and grading assignments for a class of 40+ students.
- **General Psychology:** Supervised two sections of 200+ students and assisted the professor during lecture hours.

SELECTED ACADEMIC PROJECTS

New York Stores exploration System **Dec 2020**

Technologies Used: Python, Postgresql, Pandas, Psycopg2

• Integrated a Python application with Postgresql to facilitate the exploration of the database. This was accomplished through the use of nested queries, unions, and joins on four different databases.
• Worked on database setup, schema creation, data preprocessing and loading using libraries such as psycopg2, pymongo, and pandas.

Sentiment Analyzer for YouTube Comments **Dec 2020**

Technologies Used: Python, Flask, React, Pandas, Jupyter Notebook

• Implemented a scalable application that analyzes YouTube comments using React. For the backend, Flask was used to serve the REST API.
• Designed a system that allows the user to fetch comments, used logistic regression model to predict sentiment score & created visualization using matplotlib and seaborn.
• Utilized TextBlob for labelling and CounVectorize for feature extraction on comments. The sentiment scores implemented using Logistic Regression achieved an accuracy of 89%.

Television Viewership prediction using Tweets **Apr 2019**

Technologies Used: Python, Flask, AngularJS, JavaScript, HTML, CSS, Pandas, NLTK, Scikit-learn

• Developed a full-stack application with an interactive dashboard that uses AngularJS framework to fetch live tweets, display pre-processed data & visualization. Created different Python modules and integrated them with the Flask backend server.
• Utilized a random forest model to predict viewership results for The Simpson show using opinion mining.
• Achieved an R2 score of 90.1 % to predict viewership and an accuracy of 77 % to classify tweets.

Get Placed - Job recruitment portal **Dec 2017**

Technologies Used: Java, MySQl, JSP, Servlets, HTML, CSS, Apache Tomcat

• Created a web application for students using JSP, Servlets, HTML, and CSS for the front-end with Tomcat server and MySQL database.

School Management System **Dec 2017**

Technologies Used: Java, MySQl, JSP, Servlets, HTML, CSS

• Developed a web application that allows the user to perform CRUD operations to organize and manage centralised data.

CERTIFICATIONS

- Front-End Web Development with React with honors, Coursera **Aug 2020**
- Neural Networks and Deep Learning, Coursera **Jun 2020**
- Applied Text Mining in Python, University of Michigan **Feb 2019**

LEADERSHIP AND INVOLVEMENTS

- Member of Gamma Nu Eta, IT Honor Society RPI : Tutoring in virtual office hours **Jan 2020- Dec 2020**