# Meenu Gigi

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## TECHNICAL SKILLS

- **Programming language:** Java, JavaFX, Python, React, C/C++, JavaScript, ES6, ReactJS
- **Web Technologies and Frameworks:** HTML, CSS, Ajax, Flask, Django, Spring Boot, Spring MVC Frameworks, Hibernate, JSP
- **Database:** Relational Databases/RDBMS, SQL, MySQL, PostgreSQL
- **Tools/IDE:** Tableau, Power BI, IntelliJ, PyCharm, VS Code, GitHub, Jupyter Notebooks, Git, Jira, Bugzilla, Postman, Gradle, Maven
- **API, Services, Libraries**: REST API, Pandas, NumPy, Matplotlib, Seaborn, Torch, Scikit-Learn, Natural Language Toolkit, Transformers, Requests, Beautiful Soup, HuggingFace, SciPy, Deep Learning
- **Software Testing/Quality Assurance**: Production testing, Regression testing, User Acceptance testing, JUnit testing
- **Others**: Data Mining, Predictive Modeling, Data Visualization, Advanced Object-Oriented Programming Concepts, Data Structures, Data Processing, Algorithms, Agile Development Cycle, Web Protocols

## WORK EXPERIENCE

**Data Analyst** | ***Python, Pandas, NumPy, Seaborn, ML models, Tableau*** **July 2019 - August 2021**
**Infinite Computing Systems Pvt. Ltd., Mumbai, India**

- Analyzed business requirements to understand business needs. Worked with data analytical tools to explore and visualize data.
- Implemented and worked with clustering algorithms to classify customers and segment users based on behavior and purchase patterns generating $80K sales. Worked on bug fixing for a personalized user recommendation system.
- Worked with multiple data modeling techniques to analyze the determine the relationship between various data parameters resulting in a 15% increase in company revenue.

**Data Analyst Intern** | ***Python, Tableau*** **May 2018 - August 2018**
**D - Zone, Delhi, India**

- Worked with data analytical tools to explore and visualize data. Built Tableau dashboard to visualize Key-Performance Indicators (KPI).

## PROJECTS

**Credit Score Classification | Python-Flask, Pandas, NumPy, Matplotlib, Seaborn, Random Forest, K-means clustering, Tableau, HTML, CSS, JavaScript** **Aug 2022**

- Cleaned and preprocessed data to handle NULL values and duplicates. Created Tableau Dashboard to visualize the data and factors that impact the credit score.
- Implemented K-means clustering with 86% accuracy to cluster customers based on their credit scores. Implemented Random Forest Classifier to predict Credit Score based on a certain set of factors with 83% accuracy rate.
- Developed a full stack application using Flask that predicts Credit Score category based on various user inputs along with displaying the graph visualizations.

**Bike Rental Data Analysis | Pandas, NumPy, Matplotlib, Seaborn, Regression** **Jul 2022**

- Cleaned and prepared data for data visualization. Analyzed data to identify Bike Rental trends between registered users and casual users.
- Analyzed the impact of climatic conditions, temperature, humidity, wind speed, and other factors on Bike rental sales.
- Worked with Matplotlib and Seaborn libraries to visualize the results of the analysis. Implemented the Regression model with 89% accuracy to predict sales under a set of factors. Determined the accuracy and efficiency of the model using R-square value, Mean Square Error, and Mean Absolute Error.

**Online Retail Analysis | Pandas, NumPy, Matplotlib, Seaborn, Apriori Algorithm, K-means clustering** **Apr 2022**

- Cleaned and prepared data for data visualization. Generated plots to visualize frequently purchased items and countries that generate maximum profit.
- Used K-means clustering to identify active, lost, and customers who require attention with an accuracy rate of 91%.
- Implemented Market-Basket Analysis using Apriori algorithm to generate association rules and frequently purchased item sets.

**University Admit Chance Prediction | Python, Pandas, NumPy, Matplotlib, Seaborn, Regression, HTML, CSS** **Feb 2022**

- Created an end-to-end application using Flask, HTML, CSS, and JavaScript that predicts the chances of a student receiving admission from a university.
- Cleaned and prepared data for data processing. Implemented Regression Model with an accuracy of 87% to predict the chances in percentage.
- Calculated the efficiency of the model using R-square value, Mean Square Error, and Mean Absolute Error.

**Sentiment Analysis | Python, Flask, NLTP, Pandas, NumPy, Deep Learning, HTML, CSS** **Jan 2022**

- Created an end-to-end system that allows users to input text and analyzes the sentiment score.
- Worked with Auto classes from HuggingFace to generate tokens for input. Worked with RoBERTa model to generate the positive, neutral, negative, and overall sentiment score.

**Yelp Review Analysis | Python, Pandas, NumPy, Torch, Requests, BeautifulSoup** **Dec 2021**

- Web Scrapped 'Yelp.com' to obtain the list of all user reviews. Generated tokens for each review and generated part-of-speech for each token.
- Loaded the reviews into a Pandas DataFrame and generated polarity scores for each review.

## EDUCATION

**Rochester Institute of Technology,** Rochester - *Master of Science, Computer Science* **August 2021 - August 2024**
**University of Mumbai,** India - *Bachelor of Engineering, Computer Science* ***GPA: 3.8/4.0*** **July 2015 - June 2019**
***Relevant Coursework:*** Intro to Big Data, Database Management Systems, Data structures, and Algorithms, Big Data Analytics

## AWARDS AND CERTIFICATES

- Received 20% merit scholarship for Master of Science Program, August 2021.
- Data Analysis with Python - IBM, October 2020.
- Web Development using Python and JavaScript - Harvard University, June 2020.
- Earned Gold Badge for Java and SQL on Hacker-rank, July 2020.