

## TECHNICAL SKILLS

**Languages and Databases:** Python, Java, R, C++, MATLAB, HTML, XML, CSS, JavaScript, Node.js, MySQL, MongoDB

**Libraries:** Scikit-Learn, Pandas, SciPy, Flask, Selenium, Scrapy, TensorFlow, Keras, PyTorch, Matplotlib, Shiny, ggplot, React, Express.js

**Tools:** Jupyter Notebook, RStudio, Pentaho, Tableau, PowerBI, Kubernetes, CATIA, ANSYS, AutoCAD, SolidWorks, ROS

**Big Data Technologies:** Apache Spark, AWS, Pentaho, SAS, ETL, ELT

## EDUCATION

**Master of Science in Computer Science, Minor in Big Data Analytics | Rochester Institute of Technology** 12/2022  
Rochester, NY **GPA: 3.61/4**

**Bachelor of Engineering in Mechatronics, Minor in Robotics | Manipal Institute of Technology** 07/2019  
Manipal, India **GPA: 3.6/4**

## EXPERIENCE

**Machine Learning Research Intern | MVSR Engineering College** 05/2019 – 07/2019  
Hyderabad, India

- **Analyzed and processed** the raw data from the automobile industry corpus
- Developed an Intelligent system to monitor the conditions of the vehicle's subsystem
- Enabled continuous learning from the Intelligent System using **Remaining Useful Life (RUL)** prediction, **Deviation Detection**, and **supervised classification**. Embedded the sensors and process units to study the system's robustness

## CERTIFICATIONS

- **Advanced Graduate Certificate in Big Data Analytics | Rochester Institute of Technology**
- **Advanced Certification in Machine Learning | International Institute of Information Technology, Hyderabad**
- **Modern Application Development with Java on AWS Specialization | Coursera**
- **Browser based TensorFlow.js: Data and Deployment Specialization | Coursera**

## PROJECTS

### Drug Design Using Machine Learning

- Extracted untapped bioactivity data that is publicly available and interpreted data using the **NumPy** model to perform the necessary calculations and computations
- Implemented **Proteochemometrics (PCM)** modeling to come up with new drug compositions based on how similar compounds bind to similar targets
- Performed **Support Vector Machines**, **Deep-Learning**, and **Random Forest** methods to prepare the metrics of the system built

### Social Network Application using MERN

- Built a web-based application that facilitates users to post pictures, videos, and entries
- Configured the server side using **Node.js** and **Express.js** and connected it to **MongoDB**
- Designed the frontend using **React**, **HTML**, and **CSS** to make it more interactive

### YouTube Data Analysis

- Categorized videos based on comments and identified factors that affect the popularity index
- Built **Data lake** from scratch using **Amazon S3** to organize data and used **AWS Glue** crawler and **Lambda** to understand how the data is built and ran **ETL** on top of it for transformations where required
- Used **Amazon Athena** to understand and analyze the data. Developed a dashboard of multiple charts and graphs on **Amazon QuickSight** to visualize and understand the results

### Employee Salary Estimator

- **Scraped** job postings from Glassdoor using **Selenium** to extract features and performed data cleaning using **Pandas** and **NLTK**
- Performed feature engineering along with some **Exploratory Data Analysis** and combined text and numeric features using **FeatureUnion**
- Found that the **Random Forest algorithm** performed the best with a Mean Absolute Error of 11.22

### Storing, Managing, and Analyzing Web APIs

- Developed a web application using **Flask**, **MongoDB compass**, and **HTML**
- Parsed and cleaned the data and loaded it to MongoDB compass
- Created the application to query the database from the server side by enabling varieties of filters using **pymongo**