

## Skills

- **Programming Language and Frameworks:** Java, Python, Javascript, HTML, CSS, Angular
- **Databases:** Oracle SQL, MongoDB
- **Deployment and Versioning tools:** Git, GitHub.
- **Data Science:** TensorFlow, Keras, Pandas, Scikit-learn, NumPy, Matplotlib, Jupyter Notebooks.
- **Machine Learning Algorithms:** NLP algorithms, NLTK, CNN, SVM, DNN, RNN, DQN, Feature selection, Regression, classification, clustering algorithms, AI, OpenCV.
- **BI Tools:** Tableau
- **Containerization Tools:** Docker, Kubernetes, OpenShift
- **Build/Release (CI/CD):** Jenkins, GitLab
- **Version Control Tools:** SVN, GitHub, GitLab
- **Tracking Tools:** Jira, Azure
- **Development Tools:** Anaconda, IntelliJ, Spring Tool Suite

## Work History

### United Parcel Service, Louisville, KY- Senior Software Development Engineer

Jan 2021 - Present

- **Spearheaded** full-stack development using Angular and Spring technologies for the Flight Crew Systems app.
- **Engineered** a comprehensive feature for seamless transfer and filtering of Official Airline Guide files to the Jeppesen Crew Planning application, customized to user preferences and implemented **Kubernetes** containerized Micro Service Java applications.
- **Orchestrated** the deployment and management of cloud infrastructure required for the project, ensuring seamless integration with Cloud providers **AWS** and **GCP**.
- Executed **Angular** for front-end development and utilized Java and **Spring Boot** for the back-end implementation deployed. Enhanced the UPS Encryption Client by integrating HashiCorp Vault, strengthening overall security measures.
- Implemented upgrades with **Java 11**, **REST**, and Spring Vault, fortifying security and ensuring compliance with encryption standards.
- Integrated MessageBrokers like **Kafka** and **ActiveMQ** for efficient data processing, deployments using **Kubernetes**.
- Used **Postman** for testing the endpoints created using **SOAP** and **Apache Camel**.
- Collaborated with product owners, stakeholders, and development teams to refine and prioritize the product backlog in **Agile** environment.

### Wiser Solutions Inc, San Mateo- Data Analyst

May 2019 – Jan 2021

- **Designed** and **implemented** KPI dashboards, **enhancing** managerial decision-making **efficiency by 60%**.
- Conducted **detailed analysis** of metric progress, demand trends, and overall performance for strategic insights.
- **Orchestrated** user experience instrumentation, integrating test variants, and enforcing robust data quality standards.
- **Transformed** and stored data in user-friendly formats for enhanced team accessibility.
- Created metrics to **reveal patterns and trends in raw data**, enabling actionable insights.
- Utilized ad-hoc SQL queries to **optimize SSIS job latency by 50%** for ETL and Data warehousing using **Python**.
- **Contributed** to web scraping, broadening data collection capabilities and supporting diverse sources.

### Graduate Scholar

July 2020- Jan 2021

- **Contributed** to paper writing by documenting research outcomes and collaborating on methodologies and implications.
- Worked closely with a multidisciplinary team, **integrating cutting-edge techniques** for continuous advancement in research methodologies.
- **Collaborated** with peers to effectively communicate research findings to academic and industry audiences.
- Played a key role in **ensuring well-structured and impactful written contributions**.

## Projects

### Designing a Smart Scheduler using Reinforcement Learning

Python, Deep Neural Networks

- **Contributed to a research project** involving complex datasets from **Lam Research for wafer construction**.
- **Spearheaded** efforts to enhance wafer processing throughput and **speed by 90%**, implementing a Deep Learning model.
- Used a **DNN model** to predict the next action based on a state and action pair, assigning rewards to the selected action.
- Demonstrated **leadership qualities** within the team, fostering collaboration and effective project execution.

### Image and Scene Augmented system to assist people

Python, TensorFlow, Machine Learning

- **Developed** a system to enhance customer experience by providing useful visual aids displayed on the screen.
- **Implemented** a mechanism for projecting information based on speech commands and the context of the scene captured by the device.

### Instacart Market Basket Analysis

Data Mining, Spark

- Created and trained a **predictive model using Spark** and diverse data mining techniques to forecast the next product a customer would purchase in their cart.
- Employed GPU training due to the substantial dataset size and hosted the model using Docker and Heroku.

## Education

- **MS in Computer Engineering specialization in Data Science**, San Jose State University 2018-2020
- **Bachelor of Engineering in Computer Science**, Gujarat Technical University 2014-2018