

# SIBA PRASAD CHOUDHURY

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## EDUCATION

### B.Tech. Electronics and Telecommunication Engineering

| 2017 - 2021

INDIAN INSTITUTE OF ENGINEERING SCIENCE AND TECHNOLOGY, SHIBPUR, IN

CGPA: 8.37

## WORK EXPERIENCE

### TATA CONSULTANCY SERVICES | SOFTWARE DEVELOPER

Bengaluru, India | June 2021 – (cont.)

- Designed and implemented a User Interface for Machine Learning Low Code platform using **React** to create GUI based Machine Learning components.
- Designed and implemented Express based backend REST APIs, that handled the Output JSON of the GUI based machine learning flow and generated a jupyter notebook (ipython).
- Created a JupyterHub based development environment for JupyterLab to provide JupyterLab instances for the users to customize their code generated through GUI based flow.
- Created python based custom process spawners for JupyterHub, which spawned user servers for JupyterLab IDE access.
- Created multiple **Typescript** and **React** based open-source jupyter extensions. Created customised Jupyter Lab User Interface with organisation branding. Added Git Functionality to Jupyter Lab through Frontend + Backend extension. Added React based MLFlow extension to provide UI for machine learning model management and integrated the UI with MLFlow APIs.
- Enabled authentication and authorisation in the application through organisation's authentication server.

### NWN INDIA | DATA SCIENCE INTERN

Gurgaon, IN | May 11 2020 - June 30 2020

- Worked on a live project for survey data analysis and election prediction of state elections. Worked on Data Exploration and regression model training, testing and deployment
- Designed an election voting preference based scenario-simulator tool. Created backend application in express which provided API end-point for the voting preference simulator.

## PROJECTS

### LOW-CODE ML PLATFORM (ONGOING)

REACT, NODEJS, EXPRESS, JUPYTER, PYTHON, DOCKER

A low-code machine learning platform that provides machine learning methods as an API-backend to process machine learning tasks from a simple GUI. The GUI provides realtime execution and output of each step through API. Along with that, there is provision to launch the generated flow in a Jupyter IDE, and add custom code to the workflow. Customised Jupyter through extensions(React based extensions) to provide ML FLOW as a model management service.

### ONLINE PIZZA SHOP

HTML, CSS, JAVASCRIPT, REACT, REDUX, NODEJS, EXPRESS, MONGODB, REDIS

Created an e-commerce solution for an online pizza shop. Implemented modern react hooks and redux for state management. Implemented nosql based mongo database. Developed user authentication and authorization based on session and JSON Web Token(JWT). Implemented "redis" in-memory database for caching and used "redis" as a session store for session management of express user-session. Containerised the application using docker and deployed in AWS Elastic Beanstalk.

### SPORTS APPLICATION (ONGOING)

JAVASCRIPT, REACT, WEB SOCKET, SOCKET.IO, NODEJS, EXPRESS

A sports application with live football scores and chat functionality with rooms.

## SKILLS

**Languages:** JavaScript, Python, C++, SQL

**Web Development:** React, JavaScript, HTML/CSS, Express, NodeJS

**Technology:** Docker, Kubernetes, Nginx, Apache Kafka, MongoDB, PostgreSQL, Git

**Familiar with:** Event-driven architecture, TypeScript, Elastic Stack(ELK), FileBeat, MetricBeat, Jenkins, Prometheus, Java, Spring-Boot