

# Rohit Doyal



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Rohitdoyal



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Portfolio

## EDUCATION

### INDIAN INSTITUTE OF TECHNOLOGY JODHPUR

- Bachelor of Technology in Electrical Engineering (CGPA: 7.72 / 10.00)
- Specialization in Visual Computing

Jodhpur, Rajasthan

July 2019 - May 2023

July 2022 - May 2023

### MONTESSORI SCHOOL

- XII : 90.00 Percent

Jaisalmer, Rajasthan

July 2017 - May 2018

## EXPERIENCE

### JIO RELIANCE

Software Engineer

October 2023- \*Current

Bangalore, Karnataka

- Full-Stack Data Science Website:** Utilized **React.js**, **Redux**, **Material-UI**, **Express.js**, **Node.js**, and **MongoDB** to build a comprehensive data science website. Designed and implemented seamless API integrations for optimized frontend-backend communication, enhancing user experience.
- Automated Data Aggregation Pipeline:** Developed a **Python** script using the **PyArrow** library to efficiently fetch data from HDFS, process it with **pandas**, and implemented logic to ensure that only unread files were processed. The script performed data aggregation and used batch statements along with parallel processing to insert the aggregated results into **Cassandra DB**, resulting in a **7x performance** boost. Additionally, integrated **logging** features to capture info logs, error logs, and execution time logs. This solution was successfully deployed in a production environment.
- Data Processing Scripts for JVIZ Preprod:** Developed and automated scripts to fetch, process, and store data in **MongoDB**, ensured proper data population with monitoring scripts. Rewrote codebase in **PySpark** for efficient handling and parallel processing of big data.
- Automated Disaggregation Pipeline:** Utilized the **PyArrow** and **Pandas** library to fetch and process data from HDFS. Developed a disaggregation pipeline using a **seq2point** machine learning model to predict the consumption of various household equipment based on meter data. The results were efficiently pushed into Cassandra DB
- Automated Email Sending System:** Automated the process of fetching disaggregation results from Cassandra DB, calculating total consumption for the month and the previous day, generates detailed visual plots of appliance-level consumption, and sending them through email.

### WILLINGS

Web Development Intern - Certificate

October 2021- December 2021

Remote, Japan

- Developed frontend components to enhance product features and improved and debugged the current front-end of products and used **ReactJS** - **Redux** and **CSS** for a seamless interface.
- Utilized Sharp library to optimize image extraction, resizing, and re-uploading from Firebase storage, enhancing overall performance.

### IIT JODHPUR

Data Scientist Intern - Certificate

May 2021 - July 2021

Jodhpur, Rajasthan

- Researched an inductive representation learning on dynamic graph analysis technique.
- Implemented the technique using Graph Neural Networks, feature extraction, Pagerank, and GraphSAGE.

## PROJECTS

### E-COMMERCE WEBSITE | Self Project - Demo | Github

June 2022 - July 2022

- Designed architectural framework for seamless integration and optimal performance of an e-commerce website.
- Engineered a full-stack web application for e-commerce, specializing in core functionalities like authentication, order processing, and product creation using **React.js** with **Redux**, **MongoDB**, **Node.js**, **Express.js**, and **CSS**.

## TECHNICAL SKILLS

**Languages:** C++, C, Javascript, Python, Java, C#

**Technologies:** React.js, Django, Flask, Express.js, Bootstrap, Node.js, TensorFlow, Pandas, Numpy, Pyspark, OpenCV

**Courses:** Data Structure And Algorithms, Operating System, Introduction To Machine Learning, Computer Network, Computer Graphics, Computer Vision, Computer Architecture, Database Management System

## ACHIEVEMENTS

- Changed major from Mechanical Engineering to Electrical Engineering.
- Ranked among the top 0.4 percent of 2.4 million applicants in JEE Advanced.
- Ranked first in the 12 RBSE Board Science streams in Jaisalmer.