RAYYAN A SIDDIQUI

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SUMMARY

Second-year Computer Science student with strong foundations in Java, web development (MERN stack), and backend development using REST APIs. Experienced in building full-stack applications with secure authentication and cloud integration. Currently building foundational machine learning skills , with plans to develop deep learning models using PyTorch for real-world applications. Actively exploring AI model deployment, MLOps, and interdisciplinary research opportunities in health and climate domains.

EDUCATION

Sardar Patel Institute of Technology
BTech, Computer Science and Engineering
CGPA as of 3rd Semester : 8.66

Mithibai College - HSC 12th Science - 2023 : 86.8%

Hansraj Morarji Public School - SSC 10th - 2021 : 89.8%

TECHNICAL SKILLS

- Programming: C, Python, Java
- Web Development: React.Js, Node.Js,Flask
- Database Management: MySQL, MongoDB
- Data Analysis : Pandas, NumPy
- Data Visualization:Matplotlib, Seaborn
- Machine Learning: Regression models, Data Preprocessing, Feature Engineering, Model Evaluation, Scikit-learn, PyTorch

SCOPE CERTIFICATION

JP Morgan Chase College to Corporate Program - (Ongoing, Started in March 2025)

- Selected for an industry training program by JPMorgan Chase & Co., focusing on cloud computing and agile methodology

PROJECTS

LEGO Price Prediction (Machine Learning Project)

- Applied and evaluated multiple regression models to predict LEGO set prices using features like number of pieces, release year, and theme.
- Performed data cleaning, feature scaling, and log transformation for preprocessing.
- Used scikit-learn for model training and visualized performance metrics to compare results.

Micrograd:Custom Autograd Engine

- Implemented a minimal automatic differentiation engine in Python from scratch.
- Built core components such as scalar Value objects and backward pass logic to understand gradient computation.
- Gained foundational understanding of backpropagation and neural network internals.

MangaLo-Manga Reader App

- Developed backend for manga reader app using Node.js and MongoDB for efficient data management.
- Implemented JWT authentication and bcrypt for secure user login and registration.
- Designed RESTful APIs for manga data retrieval, user progress tracking, and preference