

RAYYAN SIDDIQUI

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EDUCATION

Sardar Patel Institute of Technology, Mumbai
B.Tech in Computer Science and Engineering
Minor in Financial and Strategic Management

2023 – Till Date

WORK EXPERIENCE

Machine Learning Intern

July 2025 – Present

Aim4U

Working on convolutional neural network (CNN) architectures for disease identification from skin images.
Collaborated with the ML team to integrate models into production-ready pipelines.

Summer Intern (Incoming)

June 2026 – August 2026

Barclays

Selected for the Summer Internship program, Onsite

SKILLS

Programming	C, Python, Java
Web Development	Node.js, Next.js, FastAPI
Database Management	MySQL, MongoDB, ChromaDB
APIs	RESTful APIs, JWT Authentication
Deployment	Render, Vercel
Data Analysis	Numpy, Pandas
Data Analysis	Matplotlib, Seaborn
Machine Learning	Regression Models, Data Preprocessing, Feature Engineering, Scikit-learn
LLMs	Gemini API, Retrieval-Augmented Generation (RAG), Sentence-Transformers

PROJECTS

DiploMate - Next.js, Node.js, MongoDB, Python, FastAPI, Sentence-Transformers, ChromaDB July 2025

Developed a full-stack AI-powered Model United Nations assistant with user authentication, event creation, and chatbot integration.

Engineered hybrid RAG pipelines combining vector database search and Gemini APIs for context-aware responses.
Built chatbots scoped to events with toggles for general knowledge or event-specific memory using vector embeddings.
Enabled speech generation and persistent saving to both user profiles and context memory for reuse during sessions.
Deployed frontend on Vercel and backend microservices on Render with JWT-secured REST APIs for user and event flows.

LEGO Price Prediction - Python, scikit-learn, pandas, matplotlib April 2025

Applied multiple regression models to predict LEGO set prices.
Performed preprocessing via data cleaning, feature scaling, and log transformation.
Trained and evaluated models using scikit-learn and visualized results.

Micrograd: Custom Autograd Engine - Python June 2025

Implemented a minimal autograd engine from scratch.
Built scalar value objects and backward pass logic.

PESTEL Analysis Chatbot - Node.js, React.js, Gemini API March 2025

Developed a MERN stack chatbot for PESTEL analysis using Gemini API.
Stored analyzed reports in MongoDB and built an interactive React frontend

HACKATHON EXPERIENCE

SPIT Frontend Odyssey

SportsHub – Designed and developed a responsive web platform using React and NewsAPI featuring secure user profiles, live match schedules, curated YouTube tutorials, and integrated news updates.

SPIT SE Hackathon

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 preferences

CodeIn Clash Hackathon

NurtureWell : Developed a maternal healthcare web application featuring secure authentication, profile management, immunization schedule tracking, and admin-driven educational content delivery. Designed REST APIs for seamless mobile and web integration.

Odoo Community Days Hackathon

SkillSwap – Built a React-based web app enabling peer-to-peer skill exchange, with service request/offer workflows, real-time swap matching, and integrated 1:1 video calls using 100ms.live.