

Parth Sangani

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SUMMARY

Final-year Computer Engineering student and Business & Technology Analyst Intern experienced in full-stack development, multi-agent AI systems, and machine learning pipelines using Python, Java, JavaScript, SQL, React, and Node.js. Skilled in data structures and algorithms, object-oriented programming, REST API design, predictive modeling, and data analysis. Seeking software engineering and technology analyst roles.

EDUCATION

Mukesh Patel School of Technology Management and Engineering, Mumbai, India

Jul 2023 – Jul 2027

Bachelor of Technology in Computer Engineering

CGPA: 3.43/4.00 (8.58/10 equivalent) | Expected Graduation: Jul 2027

Relevant Coursework: Data Structures and Algorithms, Design and Analysis of Algorithms, Database Management Systems, Operating Systems, Computer Networks, Artificial Intelligence, Cyber Security, Distributed Computing, Cloud Computing.

EXPERIENCE

Adbureau Analytics Pvt. Ltd.

May 2026 – Present

Business & Technology Analyst Intern | Mumbai, India

- Architected a multi-agent Company Intelligence Platform in Python that autonomously discovers, profiles, and scores B2B prospects as a 3-agent sequential hierarchy using LangChain and Google Gemini.
- Developed a discovery agent integrating the Google Custom Search API with platform fingerprinting to return 20+ validated domains per keyword, and a Playwright crawler using LLM prompting to convert unstructured HTML from 4 page types into structured JSON profiles.
- Implemented a 100-point weighted scoring rubric and automated outreach generation, persisting records to a PostgreSQL schema served through a FastAPI backend with a React dashboard and CSV export.
- Trained an XGBoost and LightGBM ensemble on a 10,000-record, 51-feature healthcare dataset to predict patient readmission, achieving 83.5% ROC AUC and 80.3% precision across 150+ hyperparameter tuning trials.
- Delivered a Streamlit and Plotly analytics dashboard spanning 3 analysis tabs and 5 media dimensions, with 6-week lag-based sales forecasting, SHAP explainability, and channel efficiency metrics (CTR, CPM, cost per engagement).

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript, SQL, HTML, CSS

Frameworks & Libraries: React, Node.js, Express, FastAPI, Flask, Socket.IO, LangChain, Playwright, Streamlit, scikit-learn, XGBoost, LightGBM, SHAP, TensorFlow, OpenCV, Pandas, NumPy, Plotly, Tailwind CSS

Databases & Cloud: PostgreSQL, MySQL, MongoDB, Supabase, Firebase, Docker, REST APIs

Concepts: Object-Oriented Programming, REST API Design, Multi-Agent Systems, Prompt Engineering, Machine Learning, Model Explainability, Time-Series Forecasting, Web Scraping, Data Analysis

Tools: Git, GitHub, Linux, Android Studio, Postman, n8n

PROJECTS

Automatic Vehicle License Plate Recognition

Jul 2025 – Oct 2025

Python, OpenCV, YOLOv8n, EasyOCR, Supabase, Machine Learning

- Engineered a 4-stage computer vision pipeline using noise filtering, edge profiling, and adaptive thresholding to isolate number-plate regions under varying lighting.
- Integrated YOLO-based object detection with bounding-box analysis to refine Optical Character Recognition (OCR) output, logging 1,000+ plate entries to a Supabase (PostgreSQL) schema with confidence scores.

Real-Time Chat Application (Discord-Style)

Jan 2025 – Mar 2025

React, Node.js, Express, MySQL, Socket.IO, REST APIs

- Built a full-stack real-time messaging platform serving 5 screens with server-based channels, member directories, and sub-second synchronized delivery over Socket.IO WebSockets.
- Designed a secure Node.js and MySQL backend handling authentication, session management, and message persistence across 6 normalized tables, with a responsive React front end using client-side routing.

AI-Based Learning Platform – Smart India Hackathon (SIH) 2024

Oct 2024

FastAPI, WebSocket, Natural Language Processing (NLP), Large Language Model (LLM) Integration

- Recognized in the Top 5 among 700+ competing teams at Smart India Hackathon 2024.
- Engineered an AI learning tool enabling real-time conversational interaction with historical personalities via FastAPI and WebSocket services, with adaptive question generation reaching over 85% accuracy in evaluating user comprehension.

CERTIFICATIONS

AI Automation: Building LLM Applications and AI Agents with n8n and APIs – Udemy

Sep – Nov 2025

Blockchain Workshop – MPSTME, NMIMS University

Nov 2024