

# Rishee Panchal

Mumbai

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LinkedIn

GitHub

Portfolio

## Education

### Dwarkadas J. Sanghvi College of Engineering

B.Tech in Artificial Intelligence and Machine Learning

- CGPA: 9.40/10.0

Aug 2023 - May 2027

## Technical Skills

**Languages:** Python, Java, SQL, JavaScript (React.js, Next.js, Node.js)

**ML / DL & GenAI:** Keras, HuggingFace, LangChain, NLTK, TensorFlow, PyTorch

**Cloud & DevOps:** GCP, Docker, Kafka, Kubernetes, Git

**Databases & BI:** Supabase, MySQL, Pinecone, MongoDB, PowerBI,

## Work Experience

### Suvidha Foundation

June 2025 - Aug 2025

Artificial Intelligence Intern

- Fine-tuned 5+ transformer models for news text summarization on a dataset of 15,000+ articles.
- Evaluated and benchmarked models using ROUGE-1, ROUGE-2, and ROUGE-L metrics.

## Projects

### Aequitas: Real-Time Algorithmic Fairness Audit Platform

[github](#) ↗

- Engineered a high-throughput event-driven architecture using FastAPI, Kafka, and Redis to detect algorithmic bias in live financial data with sub-second latency.
- Implemented an Explainable AI (XAI) pipeline using Flan-T5 to generate natural language decision justifications, visualized on a Keycloak-secured React dashboard.
- Tools Used:** FastAPI, Kafka, Keycloak, React, HuggingFace, Supabase

### NeurAL-Viz: Real-time Program Execution & Data Structure Visualizer

[github](#) ↗, [live](#) ↗

- Browser-based Python linked list visualizer with time-travel debugging using Pyodide and Web Workers
- Built real-time pipeline tracing and rendering dynamic memory graphs.
- Tools Used:** Next.js, React Flow, Pyodide, Vercel

### ml-explain-preprocess: An Open source PyPI Package

[PyPI](#) ↗

- Published and maintained a Python preprocessing package with 1k+ downloads for explainable ML workflows
- Engineered modular toolkit for preprocessing, feature selection, and visualization.
- Tools Used:** Python, Scikit - learn, Pandas

### Pharma Sales Territory Optimization

[github](#) ↗

- Optimized 100+ pharmacy assignments to 10 sales reps using K-means clustering, with Python and MySQL on GCP Cloud SQL.
- Built Power BI dashboard with sales trends and KPI visuals using SQL and DAX.
- Tools Used:** Cloud SQL, MySQL, Python, PowerBI

## Research Experience

### Research in Collaboration with IITM Pune (Ongoing)

February 2025 – Present

- Ongoing research on identifying severe rainfall pockets in Mumbai using AI and machine learning methods.
- Applying data-driven techniques to meteorological datasets to analyze precipitation patterns and anomalies.

## Certifications

### LLMOps and AIOps Bootcamp

August 2025

### 2025 Bootcamp: Generative AI, AI Agents, LLMs

April 2025

## Achievements and Co-Curricular

### Founding Member & Secretary at an AIML Club - DJSCodeAI

August 2025

Selected for J.P. Morgan Chase External program, 2025

April 2025

Ranked Top 15 in the Megahack 5.0 National level Hackathon out of 250 teams

March 2025

Nominated as Finalist of Innovize Hackathon at VJTI, Mumbai

February 2025