

# DARSH BOTHRA

Indore, Madhya Pradesh – 452016

☎ 9575488488

✉ darshbothra007@gmail.com

🌐 LinkedIn

🐙 GitHub

## EDUCATION

**Sardar Vallabhbhai National Institute of Technology**

*B.Tech in Electronics and Communication Engineering (CGPA: 8.07)*

Nov 2022 – Jun 2026

Surat, Gujarat

## EXPERIENCE

### Quasi Intelligence

Jan 2026 – Jul 2026

*AI Engineer Intern*

*Indore, Madhya Pradesh*

- Trained and fine-tuned **RF-DETR**, **RT-DETR**, and **lightweight CNN models** on **100K+ images** collected from public and proprietary datasets for industrial object detection and classification.
- Optimized inference by exporting PyTorch models to **ONNX** and **TensorRT (FP16 & INT8)**, reducing inference latency and CPU utilization for real-time deployment on **Jetson Orin Nano** and **Raspberry Pi 5**.
- Developed **NVIDIA DeepStream** pipelines supporting **6+ concurrent RTSP camera streams** for real-time object detection, tracking, and analytics.
- Contributed to a **GraphRAG-based document intelligence system** using **LangGraph**, **Qdrant**, **Ollama**, and **hybrid retrieval** for enterprise knowledge retrieval.

## PROJECTS

### InfluenceIQ | *Python, HuggingFace Transformers, Pandas* | **Deploy** **Github**

- Built an AI-powered influencer ranking system on **950 Instagram profiles** using **RoBERTa sentiment analysis**, engagement scoring, and log-scaled credibility metrics with Min-Max normalization.
- Designed a **weighted scoring pipeline** with dense ranking.
- Processed raw Instagram JSON data across **15+ influencer categories**, computing avg. likes/comments/views per profile and integrating **HuggingFace Transformers** for multilingual comment classification.

### Mock Mate | *NextJS, ReactJS, TailwindCSS, Vapi, Gemini API, Firebase* | **Deploy** **Github**

- Architected a real-time AI interview platform integrating Vapi's WebRTC-based voice API with Firebase Realtime Database
- Built a scalable evaluation pipeline using **Gemini API** with **prompt-chaining** techniques to process user inputs and generate insightful, automated performance reports.
- Implemented **secure user management & storage** using **Firebase Authentication** and **Realtime Database**.

## TECHNICAL SKILLS

**Languages:** C/C++, Python, JavaScript

**AI/ML:** PyTorch, Hugging Face, Scikit-Learn, OpenCV, NumPy, Pandas

**LLM:** LangChain, LangGraph, ChromaDB, Ollama

**Frameworks:** FastAPI, Next.js, React.js, Express.js

**Databases:** MongoDB, Firebase, MySQL

**Tools:** Git, GitHub, Docker, Linux

**Coursework:** Data Structures & Algorithms, Object-Oriented Programming, Operating Systems, DBMS

## ACHIEVEMENTS

- Solved **400+ problems** on LeetCode (**Max Rating: 1680**) [Profile](#).
- Max **CodeChef Rating: 1474** [Profile](#).
- **Finalist** in **Hack The Tank 2.0** hackathon by GDSC, NIT Surat.
- Achieved **98.59 percentile** (Top 1.5%) in JEE Mains 2021 among 1.2M candidates.

## EXTRA CURRICULAR

- Outreach Lead, Chintan Pratishthan (Student Chapter), SVNIT.
- Junior Developer, GDSC (Student Chapter), SVNIT.