Anshul Patil

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EDUCATION

Indian Institute of Information Technology, Surat   *Jun 2024 – May 2028*
B.Tech in Electronics and Communication Engineering   *Surat, Gujarat*

EXPERIENCE

Techvisio Design   *May 2025 – Aug 2025*
Software Developer Intern   *Thane, India*

- Developed a full-stack **React + Django REST** dashboard visualizing **10K+** daily traffic datapoints with real-time charts and filters.
- Integrated **AWS S3** to store/query **300K+** monthly traffic records, reducing report generation time by **35%**.
- Built an **AI-driven report bot** that auto-generated congestion summaries, cutting manual analysis effort by **50%**.
- Optimized API queries and rendering performance, improving dashboard load latency by **40%**.

PROJECTS

Agentic PR Copilot   Aug 2025
FastAPI, React, TailwindCSS, GitHub API, OpenRouter (Mistral-7B)

- Built an AI-powered PR reviewer analyzing **1000+ LOC** diffs per pull request, generating risk scores and explanations using LLM agents.
- Reduced PR review time by **30%** by automating reasoning on metadata, file changes, and diff context.
- Achieved **20–25%** lower inference latency with batched LLM calls and optimized FastAPI routing.
- Developed a responsive **React + Tailwind** interface with persistent input + dark mode, improving engagement by **40%**.
- Integrated with **GitHub REST API** to analyze PRs from real repositories with **99%** processing reliability.

Titan-Guidance   Jul 2025
FastAPI, Celery, Qdrant, Redis, Docker, Ollama

- Engineered an automated legal document analysis platform processing **50–200 page** PDFs end-to-end.
- Designed multi-stage pipeline (OCR → Tables → Embeddings → Clauses → Rules → LLM Guidance) reducing review time by **60%**.
- Indexed **5K+** clauses in Qdrant with **95%+** semantic retrieval accuracy.
- Improved throughput **4×** using Celery + Redis asynchronous workers.
- Implemented policy-based rule validation with **92%** compliance detection precision using Ollama LLMs.
- Containerized 5+ services with Docker Compose enabling setup and deployment in under **60 seconds**.

TECHNICAL SKILLS

- **Languages:** Python, C, C++, SQL, Bash
- **AI/ML:** PyTorch, TensorFlow, Transformers, NumPy, pandas, scikit-learn, OpenCV
- **LLMs:** Mistral, GPT-NeoX, T5, Ollama Models, LoRA, QLoRA, RAG, Instruction Tuning
- **Backend:** FastAPI, Django REST Framework, Celery, Redis, PostgreSQL, MinIO/S3, REST APIs
- **DevOps / Cloud:** Docker, Docker Compose, GitHub Actions, AWS EC2, AWS S3, Railway, Render
- **Frontend:** React, TypeScript, TailwindCSS, Vite

ACHIEVEMENTS

- Ranked in the **top 3%** (AIR ∼36,000) in JEE Mains 2024 among **1.2M+** candidates.
- Qualified for **RMO 2019**, placing in the top **1–2%** among mathematics students.
- Secured **3rd place** in Speed Coding at Spring Fest (IIIT Surat) among **100+** competitors.
- Solved **100+** LeetCode problems and regularly participate in coding contests (LeetCode, Codeforces).