

Divyansh Gupta

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PROFESSIONAL SUMMARY

AI/ML Engineer with strong foundations in deep learning and generative AI. Experienced in building end-to-end ML pipelines, fine-tuning LLMs, and optimizing data workflows. Skilled in transforming raw data into actionable intelligence through scalable system design.

EDUCATION

Rajiv Gandhi Institute of Petroleum Technology

Institute of National Importance (Govt. of India), along the lines of IITs

2022 – 2026

B.Tech in CSE

TECHNICAL SKILLS

- **Languages:** Python, C++, SQL
- **Deep Learning:** PyTorch, TensorFlow, Transformers, CNNs (ResNet, YOLO), RNNs/LSTMs, GANs, Autoencoders
- **Machine Learning:** Scikit-learn, XGBoost, LightGBM, CatBoost, Clustering, PCA, Bayesian Inference
- **GenAI & NLP:** LLMs (GPT-4/Gemini), RAG Pipelines, PEFT/LoRA, LangChain, Hugging Face, Vector DBs
- **MLOps & Tools:** Docker, Kubernetes, AWS, MLflow, Weights & Biases, Git, ONNX, Linux
- **Data Engineering:** Pandas, Polars, NumPy, OpenCV, Airflow

EXPERIENCE

AI Intern

Jan 2026 – Present

HumanizeIQ

- **Generative AI Integration:** Integrated Gemini AI models into the Secure Chat app, enabling real-time messaging and creative features like Brainstorming and Diagramming modes.
- **Prompt Engineering:** Improved the AI's ability to summarize conversations and understand user intent by refining the instructions (system prompts) sent to the model.
- **System Security:** Enhanced the backend security to ensure that all AI requests follow strict user permission rules, keeping sensitive data safe.

Software Developer Intern

May 2025 – Jul 2025

Shoutrank

- **Website Launch:** Built and launched the official **zoice.com** website, creating user accounts and interactive dashboards for both customers and internal teams.
- **Video Transcription Tool:** Automated video-to-text conversion for YouTube URLs and uploads using Whisper.
- **API Design:** Designed clear and documented internal APIs, making it easier for the team to integrate new features into the platform without complex coding.

PROJECTS

AuraSpeak - Real-Time Voice AI System

Oct 2025 – Nov 2025

- **Overview:** Built a sub-500ms latency conversational AI agent using FastAPI and WebSockets for natural flow. github.com/DIVYANSH-675/AuraSpeak | deployed: divyansh675-auraspeak.hf.space
- **Full-Duplex Processing:** Built a multi-threaded system handling Deepgram (ASR), Groq (LLM), TTS concurrently.
- **Key Features:** Enabled user interruption handling for natural dialogue and optimized for CPU-only inference to remove GPU costs.

AI-Powered Review Analysis System

Sept 2025 – Oct 2025

- **Overview:** Analyzed 260K+ Swiggy app reviews using AI agents to automatically identify customer complaints and emerging topics. github.com/DIVYANSH-675/AI-Agent-for-Swiggy-App-Review-Trend-Analysis
- **Optimization:** Accelerated data processing by 10x by replacing methods with high-speed tools like Polars, DuckDB.
- **Output:** Delivered interactive dashboards to visualize sentiment trends, helping the business make smarter data-driven decisions.

FOMC Policy Text Analysis & Generation

May 2025 – Jun 2025

- **Analysis:** Collected and analyzed 12 years of financial meeting records to see if specific words in the text could predict interest rate changes. github.com/DIVYANSH-675/fomc-gpt2-btp2 | github.com/DIVYANSH-675/fomc-statements-rate-analysis-BTP-
- **Model Training:** Trained a customized AI model on financial data to generate realistic reports that mimic the writing style of economic policy documents.
- **Resources:** Published the code and a detailed report explaining how the model was trained and evaluated.

ACHIEVEMENTS

- **Competitive Programming:** Codeforces (Specialist Rating), CodeChef (3-Star)
- **Qualified Amazon ML Summer School** Aug 2025
- **Grand Finalist, IIT Bombay Hackathon** Oct 2023
- **Winner, IIT Mandi Hackathon** Apr 2023
- **Top Ranker, JEE Advanced** (Top 2% in India) Sep 2022