

Gaurav Jaiswal

📍 Maharashtra ✉ jaiswalgaurav863@gmail.com 📞 9511626235 📁 Portfolio in Gaurav Jaiswal
🔗 Gaurav Jaiswal

Summary

AI and Data Science graduate experienced in building production-grade ML systems and FastAPI services, including OCR and multimodal pipelines, and creator of a Python preprocessing toolkit with 12,000+ downloads.

Education

CSMSS, Chh. Shahu College of Engineering
B.tech in Artificial Intelligence and Data Science

Jan 2021 – July 2025

Experience

Data Science Intern
Ellipsis

Chh. Sambhajinagar
Mar 2025 – Dec

- Contributed to an OCR pipeline for semi-structured scanned forms with handwritten fields; designed pre-processing and validation steps (noise cleanup, field checks, confidence thresholds) and helped the team reach 80% accuracy on a held-out set, reducing manual review effort.
- Built scalable and efficient FastAPI microservices to serve ML models and OCR pipeline via RESTful APIs.
- Integrated Soniox API for real-time audio and video transcription, delivering 95% accuracy across diverse media formats and enhancing multimodal data processing capabilities
- Applied Google Gemini models to produce concise, context-aware summaries of transcribed content, improving clarity and downstream analysis efficiency.

Projects

Text-Preprocessing-Toolkit

[tptk](#) 

- Engineered a modular Python package for end-to-end data preprocessing (text, numerical, categorical), now exceeding 12,000+ PyPI downloads, used in real-world ML and NLP workflows.
- Built efficient preprocessing modules including tokenization, lemmatization, spell correction, imputation, outlier handling, and scalable encoding, reducing data preparation time by 50% across pipelines.

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[Github](#) 

- Built a full-stack AI assistant platform (Next.js + FastAPI) with real-time chat, file uploads, and advanced message rendering (markdown, code blocks, tables, project JSON parsing).
- Developed a multimodal AI pipeline supporting audio/video transcription (Soniox + FFmpeg), document ingestion with RAG (ChromaDB + BGE embeddings + BM25 hybrid search), and scalable file storage using MongoDB GridFS across audio, video, image, and document buckets.

Technologies

Languages & Tools: Python, SQL, MongoDB, Git, FastAPI

Machine Learning & AI: Machine Learning, Deep Learning, Scikit-learn, PyTorch, LLMs, Generative AI

NLP & Data Processing: NLTK, SpaCy, Pandas, NumPy

Achievements and Certifications

NPTEL and Udemy: Python, Deep Learning

Project Exhibition Appreciation: Recognized for project exhibition at Sidharth Garden, Chh. Sambhajinagar, organized by the Ministry of Tourism and Cultural Affairs, Mumbai, in association with the Collector's Office, Chhatrapati Sambhajinagar.