

PRANAY BAGARIA

+91 9602235500

pranaybagaria01@gmail.com

PranayBagaria

Pranay9981

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PROFESSIONAL SUMMARY

AI/ML engineering student with hands-on experience building production-grade AI agents, LLM- powered automation pipelines, and full-stack intelligent systems. Proficient in Python, Claude/Anthropic API, FastAPI, RAG architectures, and Supabase. Active GitHub portfolio of 8+ deployed projects with measurable results; currently interning in AI automation and full-stack development. Comfortable shipping autonomous, production-ready code independently.

EDUCATION

BMS Institute of Technology and Management, Bengaluru

B.E. in Artificial Intelligence and Machine Learning

Sep 2023 – May 2027

CGPA: 8.91 / 10

EXPERIENCE

AI Automations & IT Systems Intern

VRB Capital LLC | Remote

Mar 2026 – Apr 2026

- Built AI-powered automation workflows using Claude (Anthropic API) and ChatGPT, automating email response handling and CRM data entry via Zoho Bigin — eliminating manual data processing tasks.
- Integrated AI tools for real estate investment analysis, enabling data-driven decision support for internal teams.
- Managed and improved internal IT systems including server configuration and access control via cPanel; enforced data organization and security protocols across company systems.

Tools: Claude (Anthropic API), ChatGPT, Zoho Bigin, cPanel, Python, workflow automation

Full Stack Developer Intern

Care 4 Edu Solutions Pvt. Ltd | Remote.

Feb 2026 – May 2026

- Developing full-stack web applications and RESTful APIs using Java, JavaScript, Python, and Spring Boot framework.
- Building and integrating backend services with frontend interfaces, collaborating on cross-functional product features.

Tools: Java, JavaScript, Python, Spring Boot

PROJECTS

Resume Intelligence System

- Built an ATS-grade AI agent combining 50% keyword matching with 50% semantic vector similarity using FAISS and all-MiniLM-L6-v2 embeddings; integrated Llama-3-8B (Groq API) for automatic role detection and gap analysis.
- Implemented a self-learning pipeline where resumes scoring above 85/100 auto-enrich the vector memory; supports batch processing of 50+ resumes with global leaderboard ranking.
- Developed RAG-powered ATS resume builder, cover letter generator, and interview prep module generating 5 role-specific questions from identified resume-JD gaps.

Stack: Python, FastAPI, FAISS, Groq (Llama-3-8B), Gemini 1.5 Pro, RAG, SentenceTransformers, MySQL, React, Vite

DeepFake Predictor

- Engineered a production-grade deepfake detection platform using a dual-model architecture (ViT + ConvNeXt-Tiny) trained on 16,000 balanced face crops across 8 datasets including StyleGAN, SDXL, and FLUX.
- Achieved 0.9977 AUC and 99%+ detection accuracy; integrated Grad-CAM heatmaps for explainable AI and RetinaFace via ONNX Runtime for robust face detection.
- Implemented frame-by-frame video analysis with temporal sampling, 6-region facial scoring, and interactive verdict timeline; deployed via FastAPI backend.

Stack: PyTorch, HuggingFace Transformers (ViT), ConvNeXt-Tiny, Grad-CAM, InsightFace, ONNX Runtime, FastAPI

Neonatal Sepsis Detection — Federated Learning

- Built a federated learning framework using Transformer and GRU-D architectures for privacy-preserving early sepsis prediction on clinical EHR time-series data across a multi-client setup.
- Achieved AUROC 0.894, AUPRC 0.567, and 94.7% accuracy with secure aggregation via additive masking; deployed real-time inference dashboard on Streamlit.
- Ensured full HIPAA/GDPR compliance; live demo deployed at [neonatal-sepsis](#).

Stack: Python, PyTorch, Federated Learning, Transformer, GRU-D, Streamlit

TECHNICAL SKILLS

Languages

Python, JavaScript, Java, C++, C, Kotlin, TypeScript

AI / LLM

Claude (Anthropic API), Groq (Llama-3), Gemini API, Llama-2, RAG, FAISS, HuggingFace Transformer

ML Libraries

PyTorch, TensorFlow, Scikit-learn, XGBoost, NumPy, Pandas, Matplotlib

Frameworks

FastAPI, Spring Boot, React, Next.js, Streamlit, Node.js

Databases

MySQL, MongoDB, Supabase (PostgreSQL), FAISS (vector DB)

Tools

Git/GitHub, VS Code, Jupyter Notebook, cPanel, Zoho Bigin, ONNX Runtime, Docker

Core Areas

AI Agents, LLM Integration, NLP, Computer Vision, Federated Learning, API Automation, Deep Learning