

AADITYA BARAK

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AI Engineer — LLMs, RAG Systems, Document Intelligence

Education

UIET, Panjab University

Bachelor of Engineering (Electrical & Electronics Engineering)

Sep. 2022 – May 2026

Chandigarh, India

Experience

PrudentBit

AI & Backend Engineer

Feb 2026 – Present

Noida, Uttar Pradesh

- Migrated the entire backend to an **on-premise deployment** using **Docker**, containerizing services and managing on-prem infrastructure for both backend and AI workloads.
- Integrated **OnlyOffice** into the product, enabling in-app document editing and collaboration workflows.
- Migrated LLM inference to the **ONNX** runtime and optimized **Django** backend services for improved performance.
- Implemented a **software licensing system** for the platform.

PrudentBit

AI Intern

May 2025 – November 2025

Noida, Uttar Pradesh

- Led development of a **production-grade document redaction system** for PDF, DOCX, images, reducing manual effort by **70%** across **1,000+** documents.
- Built an **end-to-end document AI pipeline** (OCR + preprocessing + PII detection + masking), improving processing speed by **2x**.
- Developed **PII detection system** with pixel-level masking while preserving layout, and **TinyBERT-based reranking (100ms)** for search relevance.

Freelance AI Engineer

Self-Employed (Client Projects)

May 2025 – Present

Remote

- **ZapUp – AI Educational Platform** —link—: Built full-stack platform with real-time chatbot, personalization, and scalable backend using Next.js and Supabase
- Implemented context-aware LLM assistant with conversation memory and dynamic filtering
- **TITTA – AI Construction Analysis System** —link—: Built **production-grade RAG system** for querying PDFs and CAD (DWG/DXF)
- Implemented vector search using **BGE-large embeddings** with Supabase vector storage
- Designed **DWG/DXF metadata extraction pipeline** with structured storage in PostgreSQL, enabling domain-specific reasoning for engineering analysis.

Projects

AI-Powered Resume Parser & Job Matcher —link— | FastAPI, PostgreSQL

November 2025

- Built AI system using **OCR + NER + LLM scoring** processing **1,000+** resumes.
- Implemented multi-criteria ranking reducing recruiter effort by **40%**.

BERT NER System —link— | Transformers

July 2025

- Built token classification model using HuggingFace Transformers and PyTorch.
- Improved performance using fine-tuning and preprocessing.

Deepfake Detection System —link— | TensorFlow

April 2025

- Achieved **93% accuracy** using VGG16 transfer learning.
- Evaluated performance across real vs synthetic datasets.

Technical Skills

Languages: Python, SQL, JavaScript

AI/ML: PyTorch, Transformers, NLP, Computer Vision, OCR

LLM & GenAI: LLMs, Prompt Engineering, RAG, LangChain, Vector Search

Frameworks: FastAPI, Next.js

Databases: PostgreSQL, Supabase, Redis

Tools: Git, Linux

Leadership / Extracurricular

Open Source and Developer Community

Contributor / Mentor

- Contributed to ML/NLP repositories and mentored developers on APIs and deployment.

2022 – Present

Panjab University