

# Aryan Rajpurkar

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## Education

**B.Tech in Computer Science and Engineering (Data Science) - 9.2 CGPA, D.J. Sanghvi College of Engineering** 2022 – 2026

## Professional Experience

- Data Engineering Intern, VisaFriendly** 06/2025 – Present  
India
- Developed **real-time ETL pipelines** processing **100K+ daily job entries**, improving **accuracy by 28%** and reducing **processing time by 40%**
  - Built **AI agents** for **resume and cover-letter generation** with **Crewai and n8n**, automating ~8K documents monthly and improving **interview response rates by 22%**
  - **Technical Skills:** AWS (ECS, ECR, CloudWatch, RDS), Python, SQL, Crewai, n8n, ETL Pipelines, Data Modeling, LLMs
- SDE ( ML ) Intern, Mantrika.ai** 01/2025 – 08/2025  
India
- Led development of AI-powered HR recruitment platform as founding engineer, **implementing Agentic AI integration** and database schemas with **40% improved latency**, **reducing cost per candidate selection by 20%**.
  - Established **end-to-end agentic system architecture** and led core platform development.
  - **Technical Skills:** TypeScript, Next.js, Langchain, LangSmith MySQL, Supabase, AWS, CrewAI , Agentic AI
- NLP (ML) Engineer Intern, AI4Education Labs** 06/2024 – 07/2024  
Germany
- Development of an **AI-driven assessment platform** using **item response theory and knowledge graphs**, impacting **5,000+ students across 10+ schools** in India and Germany.
  - Engineered end-to-end NLG pipeline with **95% accuracy in personalized content recommendations**, leveraging AWS infrastructure
  - **Technical Skills:** Knowledge Representation, Item Response Theory Research , AWS (S3, EC2)
- Software Engineer Intern, Drilldown** 03/2024 – 08/2024  
India
- Designed and deployed **multimodal AI agents** on Telegram, WhatsApp, and Instagram, reducing audit turnaround time by **35% for FMCG clients**
  - Developed an **AI-powered Influencer Marketing platform** using **Instagram Graph API and LangChain** to match brands with creators based on **engagement analytics**
  - **Technical Skills:** Generative AI, LangChain, LLMs, Prompt Engineering, GCP (BigQuery, Cloud Run), SQL, AI Agents

## Projects

- Edudata, Intelligent Document Search and Management Platform**
- Manages and analyzes documents with **Precident Matching**, machine-readable checks, and **automated approval workflows**.
  - Features admin-user workflows, **real-time metadata generation**, and detailed **RAG intelligent search via embeddings ( hybrid retrieval BM25 + vector, reranking )**.
  - Implemented under the **Government of India's e-Office Mode Project**.
  - **Technical Skills:** NextJS, Python (Flask), MongoDB (GridFS), Clerk API, BM25, OCR, Elasticsearch, Apache Kafka.
- Equitas, Real Time AI Safety and Monitoring Platform**
- **Enterprise AI safety layer for LLMs** with multi-layer detection (toxicity, bias, hallucination, jailbreak) **using custom transformer models** (Detoxify, SHAP, LIME); no vendor lock-in. [Custom Python Package Link](#)
  - Features **real-time explainability with SHAP/LIME token-level analysis**, multi-tenant architecture, credit-based billing, and a drop-in LLM APIs replacement with safety metadata.
  - **Technical Skills:** Python (FastAPI), React/TypeScript, MongoDB, Clerk API, PyTorch, Transformers, SHAP, LIME, Redis, Docker.

## Leadership

- Chairperson - DJS-S4DS, National Data Science Committee of India** 07/2024 – Present
- Designed and executed technical workshops and bootcamps, **mentored 200+ students** in machine learning, AI and data analytics

## Awards

- Winner at Smart India Hackathon ( SIH ) 2024, National Hackathon hosted by Government of India**
- Selected Scholar, Amazon ML Summer School 2024, Selected out of 61,000 participants**
- Best Student Chair 2025, Society of Data Science - India**
- Winner of 5 National Hackathons | Awards Worth ₹2+ Lakhs**

## Skills

- Languages:** Python, Java, JavaScript, Typescript, SQL
- Web Development Frameworks:** Flask, React, NextJS , SpringBoot , RESTful API development
- Cloud & Data Engineering:** AWS (EC2, S3, Athena, Glue ) , GCP ( Cloud Run ) , Apache ( Kafka, Spark, Airflow )
- DevOps and Containerization:** Git, GitHub, Docker, Kubernetes, CI/CD , Microservices
- Data Science and Machine Learning:** PowerBi, NLP, TensorFlow, Computer Vision, Generative AI, Federated Learning , Data Analytics, Graph DBs ( neo4j ) , FAISS , Pinecone , AgenticAI , VectorDB ( Astra , Pinecone ) , RAG , MCP