

Aryan Rajpurkar

 av.rajpurkar@gmail.com  +917718950601  Mumbai, India  <https://aryanrajpurkar.tech>  <https://github.com/aryan4codes>
 linkedin.com/in/aryan-rajpurkar

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

KMRL Nexus, Intelligent Document Search and Management Platform

- Manages and analyzes documents with **PII redaction**, 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 - Kochi Metro Rail Project
- **Technical Skills:** NextJS , Python (Flask), MongoDB (GridFS), Clerk API, BM25, MIS, Apache Kafka.

Recrutr, AI Based Recruitment Assistant

- Developed AI agents for **candidate shortlisting, ranking, and interview scheduling**, reducing **screening time by 65%** while improving **SLA compliance by 35%**
- Implemented **Vector-based search and AI fit analysis** with 92% precision, enabling accurate, explainable recommendations and reducing data errors by 50%
- **Technical Skills:** Next.js, TypeScript, Supabase (pgvector), Vercel AI SDK, OpenAI GPT-4, LangChain, AWS

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