

Aayush Joshi

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WORK EXPERIENCE

Yash Technologies Pvt. Ltd.

Indore, Madhya Pradesh

Associate Data Scientist

Apr 2024 - Present

- Currently working as a Data Scientist and Backend Engineer for Smarleader(Client) for a Psychology-based AI SaaS Application, which works with the personality of individuals.
- Working alongside Yash's Data Science team, I have experience with Generative AI, RAG, Agentic Rag, and LLMs.
- Led 3 Projects covering a range of domains from Computer Vision using LVLM, Data Extraction using RAG, OCR, and 3D Model Generation using AI.

Solid State Physics Laboratory, DRDO

New Delhi, Delhi NCR

Intern

Sep 2022 - Oct 2022

- Developed ENDECRY, a file Encryption and Decryption application using Java under project **Security Application Development**.

TECHNICAL SKILLS

Technologies: Python, SQL, Java.

Databases: DynamoDB, RDS,(Postgresql), Pinecone (Vector DB), MySQL, MongoDB, Redis.

Clouds: AWS(Lambdas, Dynamodb, S3, EC2, Sagemaker/Bedrock), Azure(AI Foundary), GCP(Vertex AI).

Frameworks: Agentic AI, RAG, CAG, LLM Finetuning, NLP, crewai, llama index, autogen, adk, langchain.

Tools: Google AI Studio, Groq, Git/Github, Bitbucket, Jira.

PROJECT EXPERIENCE

Smart Leader

New Zealand

Click With AI

Mar 2025 - Present

- Developed and deployed a psychology-based AI chat application for a New Zealand client using AWS Lambda, API Gateway, and DynamoDB.
- Led backend API development, handled DevOps with Terraform, and built a Next.js-based admin portal for client interaction.
- Played a multi-role function including data scientist, prompt engineer, cloud architect, and bug fixer, contributing to full-cycle delivery in 3.5 months.

Yash Technologies

Indore, Madhya Pradesh

Impact SDLC

Dec 2024 - Feb 2025

- Contributed as an AI Engineer and developed an AI QA bot using LAM-based technologies for AI web crawling and generating a Selenium script for automation testing
- Acted as project owner and oversaw all the advancements and deployments for the production-ready application and support.

Yash Technologies

Indore, Madhya Pradesh

Manufacturing Accelerator

Oct 2024 - Dec 2024

- Led a team of 2 in building a Manufacturing Accelerator featuring a multi-modal OCR system for handwritten text recognition (80-90% accuracy), with dynamic document configurations and extended analytics for log and medical treatment records, along with a time-series-enabled MIS reporting system using SQLite for operational insights.
- Developed a Python CadQuery-based 3D model generation module leveraging Agentic RAG architecture for automated code generation, execution, and regeneration, streamlining redundant model creation and reducing product development time.

Yash Technologies

Indore, Madhya Pradesh

Cosmetics Product Search and Flyer generation

Sep 2024 - Oct 2024

- Developed a CLIP-based image-to-image and text-to-image search with image captioning for cosmetic products, and extended it to generate product flyers using Stable Diffusion for inpainting makeup on models and outpainting customized backgrounds.

EDUCATION

Mahakal Institute of Technology

Ujjain, Madhya Pradesh

B-Tech: Computer Science and Engineering (8.41 CGPA)

Graduation Date: Jun 2024

Ryan International School

Ghaziabad, NCR

(10th - 82.4%) | (12th - 92.4%)

Graduation Date: Apr 2020