

# Shivansh Pareek

Generative AI — Backend Development — Cloud Engineering

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## SUMMARY

AI Engineer with strong experience in Generative AI, backend engineering, and cloud-native development. Skilled in building end-to-end LLM systems, vector search pipelines, scalable APIs, and production-grade automation workflows. Delivered commercialization-ready AI solutions across Samsung and IBM, including template generation engines, text-video similarity pipelines, and WatsonX-driven asset productivity tools. Hands-on with Python, Node.js, AWS, IBM Cloud, embeddings, RAG, HuggingFace, and modern agentic frameworks; experienced in shipping enterprise AI features from research to deployment.

## EXPERIENCE

### IBM

AI Engineer – WatsonX CE

Bangalore, India  
Nov 2025 – Present

- Supported the Annotate Asset Productivity initiative by improving asset insights using WatsonX Runtime, MCP, and Code Engine.
- Completed Watson Orchestrate L2–L4, Agentic AI, and RAG trainings; contributed to early-stage AI automation workflows.

### Samsung Research Institute - Delhi

AI Software Engineer

Delhi, India  
Jan 2024 – Oct 2025

- Designed, implemented, and optimized backend APIs in Node.js, including a context-aware search API that streamlined retrieval of images, videos, and media assets across enterprise platforms, reducing manual lookup time by 35%.
- Configured AWS SQS and developed a robust listener service to track real-time content updates. Enhanced the uploader service to process and enrich video/image metadata, enabling downstream analytics and automated workflows.
- Built and deployed a corporate template generator using LangChain and LLMs. Delivered 4+ custom corporate templates in under 16 seconds by integrating smart cropping, scene detection, and masking—accelerating internal content creation by 40%.
- Architected a modular backend in Flask/FastAPI, containerized with Docker, with dedicated services for database access, file storage in S3, LLM interaction, and prompt generation. Integrated DB session pooling and multithreading, improving throughput by 25%.
- Designed and deployed a text-to-video similarity pipeline using FAISS and PostgreSQL; processed over 1,000+ videos with average <4s response time by leveraging frame selection and semantic embeddings.
- Collaborated with R&D teams on Content Transformation using SDXL (Stable Diffusion), segmentation, and comparative analysis; contributed to AWS Lambda workflows and LLM fine-tuning pipelines.
- Mentored and supervised interns on tasks such as smart cropping, vector search, and backend service design, improving code quality and ensuring knowledge transfer across teams.

### Pepcoding Ltd.

Backend Developer Intern

Noida (Remote)  
Jan 2022 – Jun 2022

- Built REST APIs for the NADOS learning portal serving 10,000+ weekly users with 99.9% uptime.
- Automated workflows using Puppeteer, saving 20+ developer hours monthly; optimized DB queries reducing server load by 18%.
- Mentored 100+ students weekly in DSA and interview preparation with a 4.8/5 feedback score.

## SKILLS

- Languages:** Python, Java, JavaScript, SQL
- AI/LLM:** RAG, Embeddings, LangChain, Vector Search, SDXL, Agentic AI, MCP, ML Basics
- Backend:** Flask, FastAPI, Node.js, Express.js, REST APIs
- Cloud & DevOps:** AWS (EC2, S3, RDS, SQS, Lambda, Bedrock), IBM Cloud, Code Engine, Docker, Git, Jenkins
- Databases:** PostgreSQL (pgvector), MySQL, MongoDB
- Others:** Architecture Design, Mentoring, Problem Solving
- WatsonX Ecosystem:** WatsonX Runtime, WatsonX.ai, Watson Orchestrate

## PROJECTS

### IPL Stats Analyzer & Chatbot

Node.js, Python, FAISS, Streamlit, LangChain

Project Link

- Scraped and structured IPL data using Node.js & Cheerio.
- Developed a LangChain-based RAG chatbot for contextual cricket analytics.
- Implemented FAISS-based semantic vector retrieval and embedding pipeline.
- Built Streamlit dashboards for match insights and player-level analytics.

## ACHIEVEMENTS

- Open Lab Innovation:** Commercialized a Generative AI-based product at Samsung.
- Ranked Top 30% in Samsung's SWCProf Certification.
- GenAI Master (Level 2):** Scored 98%; appointed as AI Moderator internally.
- Solved 500+ DSA problems across LeetCode, GFG, and InterviewBit.
- Completed 100+ hours of AI upskilling under IBM Super Learner Program.

## EDUCATION

### The LNM Institute of Information Technology (LNMIIT)

B.Tech in Computer and Communication Engineering  
CGPA: 7.63

Jaipur, India  
Jul 2019 – Jul 2023

### N.K. Bagrodia Public School

Class 12: 94.3% (CBSE)  
Class 10: CGPA 10.0

Delhi, India