

SUNNY RAJ

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PROFESSIONAL SUMMARY

AI Engineer and Full-Stack Developer who ships fast and owns problems end-to-end. Experienced in building production-grade AI systems, real-time collaborative platforms, and scalable backend services. Strong execution across LLM-based applications, WebRTC systems, and cloud infrastructure, with a focus on performance, reliability, and real-world impact.

TECHNICAL SKILLS

Programming: Python, JavaScript (ES6+), TypeScript, SQL
Machine Learning: Supervised & Unsupervised Learning, Feature Engineering, Model Evaluation
Deep Learning: Neural Networks, CNNs, RNNs, LSTMs, Transformers
NLP & GenAI: NLP, Embeddings, Semantic Search, LLMs, RAG, AI Agents, Prompt Engineering
Agent Frameworks & Automation: LangChain, n8n
Frontend: React.js, Next.js, Tailwind CSS
Backend & Real-Time: Node.js, Express.js, REST APIs, WebSockets, WebRTC
Databases: PostgreSQL, MongoDB
DevOps & Cloud: Docker, Docker Compose, CI/CD Pipelines, AWS (EC2, ASG, ALB)
Tools: Git, GitHub, Postman

EDUCATION

Kamla Nehru Institute of Technology, Sultanpur Sep 2023 – Jun 2027
Bachelor of Technology (B.Tech) CGPA: 8.0

PROJECTS

Autonomous AI Agent Platform (In Progress) Jan 2026 – Present
LLMs, Agent Systems, Tool Calling, Memory, GenAI

- Building a production-grade autonomous AI agent capable of planning, reasoning, and executing multi-step tasks from high-level user goals.
- Implemented planner-executor-critic architecture enabling task decomposition, tool execution, and iterative self-correction.
- Designed short-term and long-term memory using vector embeddings to retain task context and learn from prior executions.
- Integrating external tools including code execution, file operations, and API calls to enable real-world task completion.

METASPACE – 2D Real-Time Metaverse Platform Jun 2024 – Present
Next.js, WebRTC, WebSockets, PostgreSQL, Docker

- Built a browser-based 2D metaverse platform enabling real-time multi-user collaboration and spatial presence.
- Implemented live video calls, chat, and collaborative whiteboarding using Excalidraw, increasing engagement by 40%.
- Engineered low-latency WebSocket systems achieving sub-200ms synchronization under concurrent load.
- Designed Dockerized microservices architecture with PostgreSQL ensuring 99.9% data reliability.
- Deployed and operated cloud-native services on AWS EC2 with automated CI/CD pipelines.

POSITION OF RESPONSIBILITY

Coordinated campus placement operations with recruiters and institutional stakeholders.
Mentored students in resume building, technical interview preparation, and placement readiness.