

DEEP SENGUPTA

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OBJECTIVE

Software Engineer with 1+ years of hands-on experience in AI/ML systems, Full-Stack development, and Cloud/DevOps automation. Skilled in LLMs, Deep Learning, LangChain, Docker, Kubernetes, CI/CD, and building scalable microservices. Seeking full-time SDE / AI Engineer roles to deliver high-impact, production-ready software.

EDUCATION

Institute of Engineering & Management (IEM), Kolkata
B.Tech, Computer Science & Engineering (AI) — CGPA: 9.64/10

Aug 2021 – Jul 2025

EXPERIENCE

Artificial Intelligence Engineer Sep 2024 – Present
American Megatrends International (AMI), Kolkata

- Built agentic AI workflows using LangChain, LangGraph, and custom LLM tools.
- Deployed scalable Docker/K8s microservices and CI/CD pipelines for AI automation.
- Integrated OpenBMC with Redfish API for intelligent remote infrastructure and telemetry.

CERTIFICATIONS

Oracle Certified Associate (OCA) — Oracle DB Administration & SQL (Mar–Jun 2025)

PROJECTS

- **DeepRAGfolio** — AI portfolio with LangChain RAG backend + Google Gemini Pro & 3D Three.js UI. Features: conversational memory, agent tool-calling, voice search. Latency 35%. Stack: Node.js, FastAPI, Docker.
- **Meridian DCM — SRCS** — Zero-Trust hardware management with Redfish telemetry, RBAC, TPM, encrypted commands. Provisioning efficiency +50%. Stack: Kubernetes, Python/C++, React.
- **Audio Deepfake Detection** — CNN classifier using MFCC/log-mel features; Flask API ;200ms; accuracy 94%; explainable ML dashboards.
- **SustAIble — Generative AI** — GenAI for circular economy; optimized recycling & product lifecycle, reducing manufacturing waste by 18%. Focused on ESG impact.

ACHIEVEMENTS

- **Publications:** “A Neural Network-Based Deepfake Detection System for Audio Clips” (SSWC 2024 — IEEE EasyChair) and “Application of Machine Learning Algorithms on Breast Cancer Prognosis, Prediction and Diagnosis.”
- **Patents:** “Meridian DCM SRCS: Secured Remote Command Suite for Zero Trust Hardware Management” and “Bridging the Gap: Predictive Maintenance for Digital Infrastructure.”
- **Awards:** 3× Academic Excellence Award (2nd–4th Year) & Director’s Choice Award.
- **Ranks:** WBBSE Madhyamik — 11th WB, 2nd District, 1st City (96.86%); JEE Main 2021 — 95.85 Percentile — WBJEE 2021 — Rank 2155.

SKILLS

Languages: Python, Java, C++, JavaScript (Node.js, React.js, Vue.js), TypeScript, SQL, Bash/Shell Scripting

AI/ML: Deep Learning, NLP, LLMs, LangGraph, RAG, Transformers, Generative AI, Computer Vision, MLOps

Frameworks: PyTorch, TensorFlow, Scikit-Learn, FastAPI

Full-Stack / Web: FastAPI, Flask, MERN Stack, RESTful APIs, GraphQL, Three.js, WebSockets

Cloud/DevOps: AWS, Docker, Kubernetes, Terraform, Jenkins, Linux, CI/CD

Databases: PostgreSQL, MySQL, MongoDB

Tools: Git, OpenBMC, Redfish API, Microservices, Hugging Face Transformers, Postman, Agile/Scrum, Unit Testing