

SOUMYADYUTI DEY

+91 8700330958 ◊ Delhi, India, 110032

deysoumyadyuti@gmail.com ◊ [LinkedIn](#) ◊ [Portfolio](#)

SUMMARY

Software Engineer with a focus on AI/ML, specializing in building scalable NLP solutions and cloud-native systems using Python, PyTorch, and AWS. Delivered high-impact projects, including VeriFair (92% accuracy in digital-evidence analysis) and Scribe (30% latency reduction), recognized with the SeamEdu 2025 Award. Skilled in deploying secure, production-ready microservices and fairness-aware AI pipelines to drive real-world impact.

SKILLS

- **Languages & Frameworks:** Python, PyTorch, TensorFlow, Scikit-Learn, FastAPI, LangChain
- **AI/ML Domains:** NLP, model fairness, RAG pipelines, LLM inference, explainable AI
- **Cloud & DevOps:** AWS (EC2, S3, Lambda), Docker, Kubernetes, CI/CD, Terraform
- **Security & APIs:** OAuth 2.0, secure data flows, RESTful API design
- **Tools:** Hugging Face, Git, Linux, Jupyter, VS Code
- **Soft Skills:** Problem-solving, communication, collaboration, adaptability, self-motivation

EXPERIENCE

| | |
|--|---|
| Software Development Engineer Yume | Oct 2025 – Present Remote / Hyderabad, India |
| • Architected a scalable City Data Pipeline using PostgreSQL and GraphQL , establishing a "Single Source of Truth" system that serves unified data to Web (Next.js) and Mobile (React Native) platforms. | |
| • Engineered a Python-based ingestion engine with a Staging-to-Production validation workflow, automating the scraping, processing, and cloud storage (S3) of thousands of high-quality travel data points. | |

| | |
|--|--|
| Cybersecurity Intern Amroha Police Cyber Security Internship Program | Jun 2025 – Jul 2025 Amroha, UP, India |
| • Developed VeriFair, an AI-forensic web platform integrating secure APIs for real-time classification, metadata extraction, and content verification to support digital investigations. | |
| • Applied secure API design, authentication protocols, and cloud-based deployment practices, while participating in hands-on labs covering digital forensics, OSINT , and ethical hacking | |

EDUCATION

| | |
|---|-------------|
| Bachelor of Computer Application , The NorthCap University | 2023 – 2026 |
| Relevant Coursework: AI/ML, Cloud Computing, NLP, Cybersecurity | CGPA: 8.6 |

PROJECTS

[Scribe: AI Note-Taking App](#): Award-winning LLM app (**Python, FastAPI, React, PostgreSQL**) recognized with **SeamEdu 2025 Award**. PDF processing and quiz generation reduced latency **30%** via **AWS** CI/CD.

[ArchGen: AI-Powered Architecture Generator](#): AI tool (**Python, Next.js, LLMs**) converting requirements into optimized **AWS** architectures via **Docker**. Utilized **PostgreSQL** for user configurations, reducing manual design time by **3x**.

[AI News Aggregator](#): Full-stack app (**Python, Flask, React**) delivering personalized feeds via **spaCy NLP** and **TTS**. Leveraged **PostgreSQL** to improve content relevance by **40%** and user experience.

ACHIEVEMENTS

CMR Hackfest 2.0, National Winner (Jan–Feb 2025): Topped ~1,700 teams in AI/ML hackathon; won ₹40,000.

NCU Hackutsav 1.0, Winner (Oct 2024): Won first place among 70 teams in a competitive hackathon, awarded ₹15,000 prize.

SGT Innoverse Hackathon, Winner (Feb 2025): Secured 1st place among ~100 teams; earned ₹10,000.

CERTIFICATIONS

Oracle - Cloud Infrastructure Certified Foundations Associate (2025)

DeepLearning.AI - Generative AI with LLMs (2025)