SOUMYADYUTI DEY

+91 8700330958 ◇ Delhi, India
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

Cybersecurity Intern   Jun 2025 – Jul 2025
Amroha Police Cyber Security Internship Program   *Amroha, UP, India*

- Developed VeriFair, a fairness-aware AI-forensic platform using Python and PyTorch, achieving 92% classification accuracy in detecting manipulated content for digital investigations.
- Conducted OSINT and digital forensics labs, identifying 15+ vulnerabilities in real-world cybercrime scenarios under national-level expert guidance.

System Engineer Intern   Apr 2025 – May 2025
ThinkDex   *Remote / Delhi, India*

- Architected a WebRTC-based conferencing platform on AWS, reducing latency by 35% and improving connection stability by 55% through optimized infrastructure.
- Automated CI/CD pipelines using Terraform and AWS CodePipeline, cutting manual deployment effort by 40% and enhancing system reliability with OAuth 2.0-secured APIs.

EDUCATION

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

PROJECTS

AI Note-Taking App ("Scribe"): Award-winning LLM-powered web app built with FastAPI, LangChain, and React, recognized with the SeamEdu 2025 Award. Implemented summarization, quiz generation, OCR, and PDF processing, reducing inference latency by 30% through optimized batching and AWS CI/CD deployment.

VeriFair: Built a fairness-aware digital-evidence analysis platform using Python and PyTorch, achieving 92% classification accuracy and reducing demographic bias by 20% using explainable AI and Hugging Face evaluation pipelines.

Cloud-Native ML Pipelines: Designed AWS-based ML pipelines with Docker and Terraform, enabling 50% faster model training for NLP applications through scalable training and inference deployments.

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)