SOUMYADYUTI DEY

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SUMMARY

AI/ML Engineering student with internship experience in building intelligent systems, cloud-native solutions, and secure APIs. Delivered high-impact projects like VeriFair (92% accuracy) and a real-time AI note taking app (30% latency reduction). Skilled in Python, PyTorch, FastAPI, AWS, and Hugging Face, with expertise in deploying LLM pipelines, scalable NLP apps, and production-ready microservices. Focused on building ethical cloud-optimized AI systems that deliver real-world value.

SKILLS

- **Languages & Frameworks:** Python, PyTorch, TensorFlow, Scikit-Learn, FastAPI, LangChain
- **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 the VeriFair AI-forensic platform for real-time classification, metadata extraction, and proactive tracing of manipulated or AI-generated content to support digital investigations.
- Participated in hands-on digital forensics, ethical hacking, OSINT, and mobile forensics sessions led by national-level experts — including practical labs on real-world cybercrime scenarios and investigative techniques.

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

- Architected and deployed a WebRTC-based conferencing platform, optimizing AWS infrastructure to reduce latency by 35% and improve connection stability by 55%.
- Streamlined CI/CD on AWS with CodePipeline, Terraform/CDK, and CloudWatch—automating tests, monitoring, and OAuth2.0-secured deployments; cut manual effort by 40% and boosted reliability.

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 (FastAPI, LangChain, React) recognized with the SeamEdu 2025 Award. Features include summarization, quiz generation, OCR, and PDF processing. Reduced inference latency by 30% via optimized batching and deployed with CI/CD on AWS.

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

Cloud-Native ML Pipelines: Designed and implemented end-to-end AWS-based ML pipelines using Docker, Terraform, and CI/CD for scalable training and inference deployments.

CERTIFICATIONS

AWS Certified Developer – Associate (2024)

DeepLearning.AI – Generative AI with LLMs (2025)