

Sukrit Deb

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EDUCATION

- **Academy of Technology** Hooghly, India
● *Bachelor of Technology - Computer Science and Engineering; YGPA: 7.96 (Till 5th sem)* *July 2023 - July 2027*
Courses: Operating Systems, Data Structures, Analysis of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases, Object Oriented Programming

SKILLS

- **Languages:** Python, C, SQL, Bash
- **Libraries:** PyTorch, TensorFlow, Numpy, Pandas, FastAPI, Scikit-learn, Streamlit
- **Tools/Platforms:** MLFlow, DVC, Dagshub, Docker, GitHub, MySQL, SQLite, MongoDB, Linux, Web, AWS, GCP
- **Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

EXPERIENCE

- **AWS cc AOT** Remote
Tech Lead *December 2025 – Present*
 - **Technical Mentorship:** Mentoring 100+ students through the AWS Global Hackathon, providing hands-on guidance.
- **IEI Students' Chapter CSE AOT** Remote
Convenor *September 2025 – Present*
 - **Leadership:** Directing chapter operations to execute high-engagement technical events. (e.g., competitive programming, hackathons and capture the flag).
 - **Event Management:** Organised six events consisting more than 800 participants per event, both online and offline.
- **Google Developer Groups on Campus AOT** Remote
Machine Learning Lead *August 2025 – Present*
 - **Technical Mentorship & ML Advocacy:** Mentoring 100+ students through the Google Arcade program and facilitating campus-wide workshops on Machine Learning.

PROJECTS

- **Dossier – AI-Powered Research Agent:** Built an AI pipeline that autonomously generates structured dossiers on individuals and companies, extracting key facts and conducting risk analysis. Engineered a configurable workflow graph using LangChain with specialized nodes for planning, searching, grading, and report generation. Integrated Tavily API for live web research and Groq LLMs to process information, assign risk levels, and calculate confidence scores. Features a Streamlit web interface and a command-line option for flexible execution. Tech: Python, LangChain, Groq, Tavily API, Streamlit (May '26) [GitHub](#)
- **Veritas-Agent – AI-Powered News Verification System:** Built a multi-agent AI pipeline that autonomously verifies breaking news headlines using three specialized LLM agents — a Researcher, Fact-Checker, and Editor. Researcher agent queries live web sources via Tavily, Fact-Checker cross-validates claims and assigns confidence scores, and Editor agent generates a brand-voiced Twitter thread using only verified facts. Features a Streamlit web interface with real-time agent status tracking. Tech: Python, Groq (LLaMA 3.3), Tavily API, Streamlit (May '26) [GitHub](#)
- **SlothOps – Automated Bug Remediation Agent:** [Winner @ Binary S2] Engineered an AI-driven DevOps pipeline detecting crashes via Sentry webhooks and automating root-cause analysis using GPT-4o. Features automated PII redaction, production self-healing via Git reverts, and autonomous creation of staged Draft PRs. Tech: Python, FastAPI, OpenAI, PyGithub, SQLite (March '26)
- **GLOF Predictor – Glacial Lake Outburst Flood Prediction:** [Best Innovation @ Hack Technique] Developed a disaster-mitigation ML system to predict glacial floods using environmental data. Features a custom-integrated calling agent for emergency alerts. Tech: Pandas, Scikit-learn, Python, FastAPI (January '26) [GitHub](#)

PUBLICATIONS

- **Technical Blogs:** Authored articles on *np.random.rand() vs randn()* and *fit.transform() vs transform()*, explaining statistical concepts and preprocessing best practices. Tech: Python, NumPy, Scikit-learn (September '25)

HONORS AND AWARDS

- Awarded Winners at Binary S2 conducted by Kalyani Government Engineering College - March, 2026
- Awarded Best Innovation at Hack Technique conducted by Technique Polytechnique Institute - January, 2026
- Winner at Uxplore conducted by Academy of Technology - October, 2025
- Winner at Techfiesta'25 conducted by Academy of Technology - June, 2025
- Grand Finalist at Frosthacks - A 48 hours offline hackathon - February, 2025