

Sagnik Pramanik

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SUMMARY

A Computer Science and Engineering Student and the **winner of India's largest student hackathon**, with 1+ year of experience working with the **US government** and at a **San Francisco Bay Area startup**. Certified by **Google, AWS, Stanford** and more, specializing in **Data Science and AI**.

EDUCATION

- Heritage Institute of Technology** Kolkata, India
• Bachelor of Technology - Computer Science and Engineering **CGPA: 9.69** Oct 2022 - June 2026

EXPERIENCE

- Sync.** Part-time — Remote
• **ML Engineering Intern** Feb 2025 – Present

Sync. is a YC and Google-backed startup located in San Francisco Bay Area, pioneering advanced video lip-syncing.

- Engineered high-performance services and video pipelines that eliminated the need for manual intervention across core pipelines. **reduced manual processing by 90%** and made it **2x faster**.
- Delivered **scalable production-grade applications** with **advanced multimedia processing**, leveraging Sync.so's API to support demos for **10+ enterprise clients**.
- **Skills:** Python, Machine Learning, Generative AI, LLMs, Multimedia Processing

- Verific Design Automation** Part-time — Hybrid
• **Software Engineering Intern (for Summer 2025)** Jun 2025 – Aug 2025

Verific/Electra Design Automation is the leading provider of tools for semiconductor teams and EDA since 1999.

- Automated test case generation and testing with **advanced Python scripting** and built **custom integrations** with *Invio*, **reducing manual effort by over 95%** and enabling scalable validation workflows.
- Developed an internal Retrieval-Augmented Generation (RAG) application to streamline query resolution, **improving accuracy and productivity** for engineering teams and customers by over **60%**
- **Skills:** Python, Machine Learning, Generative AI, LLMs

- BlueVector.ai** Full-time — Remote
• **Associate Cloud Developer** Nov 2024 – Feb 2025

BlueVector.ai is a Google Cloud Partner based in Colorado, providing cloud-native and AI-driven solutions for the US government and healthcare sectors.

- Contributed to **3** enterprise-scale projects, including **Lurie Children's Hospital, Chicago & The Michigan Department of Corrections**, helping streamline workflows used by over **16,100** staff.
- Delivered **2** internal projects adopted company-wide, supporting **50+** employees and improving productivity.
- Participated in full **Agile development lifecycle** of *SnapApp*, (a proprietary low-code platform), turning complex client requirements into robust solutions that **accelerated deployments** and **boosted satisfaction**.
- **Skills:** Python, SQL, Agile

SKILLS SUMMARY

Languages Python, Java, C++, JavaScript

ML & AI LLMs, Generative AI, Agentic AI, MLOps, PyTorch, TensorFlow/Keras, Scikit-Learn, OpenCV, HuggingFace, LangChain, Pandas, NumPy

Infra & Tools SQL, MongoDB, AWS, Google Cloud Platform (GCP), Docker, Kubernetes, CI/CD, Git

Others Agile, Cross-Functional Collaboration, Technical Leadership, Problem Solving

PROJECTS

- DeHazeXpert : Real-Time Video Dehazing Engine (Computer Vision, Edge Computing)**: Removes smoke/haze from videos to produce significantly clearer output. First ever solution for videos that runs entirely on-device (with near-zero latency). On powerful CPU systems, it processed 720p video stream at 15 fps with 200 ms latency. With available GPU and CuPY, it can achieve sub-30 ms latency and 150+ fps at 1080ps. **Built with:** Python, OpenCV, Numpy
- Dual-Hand Smart Gloves with AI (Machine Learning, Embedded Systems)**: Developed gloves with 26 integrated sensors (accelerometers, gyroscope, EMG, flex) to translate sign language into text and speech in real-time, with AI-powered grammar correction, chat assistance, and Android app integration. **Built with:** Python, Scikit-Learn, C++

ACHIEVEMENTS AND CERTIFICATIONS

- **Winner of HackNITR 5.0** (India's largest student-run national hackathon)
- **Machine Learning & Deep Learning Specializations** : DeepLearning.AI & Stanford
- **Google Professional Certifications** — Advanced Data Analytics, Cybersecurity, Project Management
- **Oracle Certifications** : OCI 2025 Certified Data Science Professional, Generative AI Professional
- **Cloud** : AWS Cloud Practitioner Essentials, AWS Cloud Technical Essentials, GCP Operations (x8)