

ANANYO DASGUPTA

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PROFILE SUMMARY

Passionate AIML enthusiast with hands-on experience in NLP, Generative AI and Computer Vision. Published researcher and multi-time hackathon winner, committed to building impactful, scalable solutions through innovation, collaboration, and learning.

SKILLS

Languages: Java, Python, R, Kotlin, SQL, MATLAB, Dart, HTML, CSS, Javascript

Tools: Git, GitHub, Firebase, MongoDB, Android Studio, VS Code, Figma

Frameworks: Jetpack Compose, Flutter, React Native, Pandas, Matplotlib, Seaborn, Keras, TensorFlow, PyTorch

Soft Skills: Leadership, Teamwork, Time Management, Communication, Adaptability

PROFESSIONAL EXPERIENCE

Bluestock Fintech, Remote: SDE Intern

Feb 2025 – Apr 2025

- Contributed to the production frontend team, adding new IPO-related features for optimized performance.
- Ensured smooth functionality by implementing real-time data display and downloadable PDFs.

Outlier.ai, Remote: LLM Trainer

Dec 2024 – Apr 2025

- Trained and fine-tuned large language models (LLMs), improving data analysis accuracy by 30% for better insights generation.
- Curated machine learning workflows, ensuring efficient model development, optimization, deployment, and integration.

PROJECTS

- Omguard - ML Powered Drone Based Flood Prediction, Detection & Relief System** [GitHub Repo](#)
Developed an ML-powered flood prediction system using YOLO for real-time object detection and DeepLabV3+ for image segmentation to detect floodwaters and stranded individuals through drone imagery. Integrated Ethereum-based blockchain for secure and seamless transactions with disaster management agencies. Designed interactive flood simulator and real-time CV framework for rescue mapping, enabling data transmission and actionable geolocation insights for rapid relief coordination.
- Pragati Aid - Intelligent Rainfall Forecasting** [GitHub Repo](#)
Assembled a disaster preparedness system using ML, ARIMA models, and blockchain. Predicted rainfall, generated GeoTIFF precipitation videos, and enabled transparent Web3 donations with Ethereum smart contracts for relief fund management. Developed probabilistic disaster forecasting model using ARIMA and ensemble learning methods.
- Entropy Based Sentence Boundary Detection** [GitHub Repo](#)
Built an interactive Streamlit-based NLP application that leverages Knowledge Graphs and entropy-guided reasoning to detect sentence boundaries with contextual and semantic awareness. Implemented SVO-based graph construction, structural or semantic entropy calculations, and dynamic graph traversal for boundary detection. Integrated interactive visualizations, real-time parameter tuning, and export features, delivering an explainable, next-generation alternative to traditional tokenizers.

RESEARCH WORK

- AI-driven Monitoring System for Detecting People Using Mobile Phones in Restricted Zone** [Paper Link](#)
Published a research paper at **ICAA 2025, Heritage Institute of Technology, Kolkata**, on detecting mobile phone usage in no-mobile zones. The paper explores the application of deep learning, using YOLOv8x and YOLOv8-ResNetv2 models, focusing on object detection theory, image preprocessing, and evaluation metrics like precision, recall, and mAP for real-time alert systems. DBB algorithm computes spatial proximity between double bounding boxes to infer mobile usage behavior.

EDUCATION

Heritage Institute of Technology

CGPA till 2nd Year: 8.36

Bachelor of Technology (B.Tech) in CSE-AIML (Expected 2027), Kolkata

The Aryans School

ICSE: 97.6% & ISC: 92.75%

(2009-2023), Kolkata

ACHIEVEMENTS

- Winner of Hack4Bengal 3.0 Virtual Hack 2025 (200+ teams)
- 1st position at Exabyte Encode 2025, St. Xavier's College (Autonomous) Kolkata (150+ participants)
- 2nd runner-up at Hack Synthesis 2024, UEM Kolkata (150+ teams)
- 3rd runner-up at Innovathon 2024, NSHM Kolkata (300+ participants)
- 3rd runner-up at Hack Fusion 2024, NIT Jamshedpur (850+ participants)