ANANYO DASGUPTA

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SKILLS

Languages: Java, Kotlin, Dart, Python, HTML, CSS, Javascript, R, Solidity

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

Frameworks: Jetpack Compose, Flutter, React.js, React Native, Pandas, Matplotlib, Keras, TensorFlow

Soft Skills: Leadership, Teamwork, Time Management, Communication

PROFESSIONAL EXPERIENCE

Bluestock Fintech, Remote: SDE Intern Feb 2025 – Apr 2025

- Collaborated in a team to develop and deploy a production-level IPO web application frontend using HTML, CSS, JavaScript, and Bootstrap, ensuring a responsive and user-friendly interface.
- Implemented dynamic features to display real-time IPO data and integrated downloadable PDFs, optimizing performance, and ensuring smooth functionality in a live environment.

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 on Outlier.ai's platform.
- Optimized machine learning workflows, ensuring efficient model deployment and integration.

Prodigy Infotech, Remote: Android Development Intern Feb 2024 - Mar 2024

- Architected a competitive multiplayer Tic-Tac-Toe app that facilitated strategic gameplay between players while incorporating unique features, which achieved 30% user-growth.
- Implemented a calculator app with day/night mode, achieving 75% user retention.

CodSoft, Remote: Web Development Intern Feb 2024 – Mar 2024

- Constructed a personalized web portfolio with 8 sections using HTML/CSS, attracting local businesses for collaboration.
- Created a landing page for an E-Book Store that increased visitor engagement by 30%.
- Built a responsive web-based calculator app using React.js with a 20% faster interface than previous versions.

PROJECTS

- **AQI and Air Pollution Analysis Using CNN Models**
  Developed an AQI-based air quality analysis system using CNN models (VGG16, InceptionV3, RCNNs) and boosting algorithms. Streamlit is deployed for real-time image processing and AQI monitoring, addressing the impact of pollution on ecosystems and health for **Google Solution Challenge - 2023**.

- **Curoxis – Hospital Management System**
  Implemented a Hospital Patient Management System using MERN stack, AWS, PostgreSQL and Generative AI. Features include appointment scheduling, bed booking, doctor-patient chat, inventory management, and generative AI prescription reader.

- **AI-driven Monitoring System for Detecting People Using Mobile Phones in Restricted Zone**
  Designed a mobile phone detection system for no-mobile zones using YOLOv8x and YOLOv8-ResNetv2 models. The system detects phone usage in restricted areas like hospitals and gas stations, triggers alerts, and stores violation data in an SQL database. Key technologies include OpenCV, ResNetV2, YOLOv8x, and Azure ML infrastructure. **Selected as the 3rd runner-up project at Hack Fusion 2024, NIT Jamshedpur**

- **Omiguard - ML Powered Drone Based Flood Prediction, Detection & Relief System**
  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. Leveraged historical rainfall data for predictive modeling and enabled real-time relief coordination.

- **Pragati Aid - Intelligent Rainfall Forecasting**
  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. **Selected as the 2nd runner-up project at Hack Synthesis 2024, UEM Kolkata**.

- **Crest - Music Streaming App** Engineered a music streaming app utilizing Kotlin (Jetpack Compose), Firebase, and Admobs, integrating robust user authentication and premium subscription features that attracted around 100 active users within the first month of launch.

RESEARCH WORK

- **AI-driven Monitoring System for Detecting People Using Mobile Phones in Restricted Zone**
  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.

EDUCATION

Heritage Institute of Technology **1st Year YGPA: 8.36**
Bachelor of Technology (B.Tech) in CSE-AIML (2023-2027), Kolkata

The Aryans School **ICSE: 97.6% & ISC: 92.75%**
(2009-2023), Kolkata

ACHIEVEMENTS

- Winner- Hack4Bengal 3.0 Virtual Hack 2025(200+ teams)
- 1st position at Exabyte Encode 2025, St. Xavier's College (Autonomous) Kolkata
- 1st runner-up at National Students Space Challenge 2024, IIT Kharagpur (500+ participants)
- 2nd runner-up at Hack Synthesis 2024, UEM Kolkata (200+ participants)
- 3rd runner-up at Innovathon 2024, NSHM Kolkata (300+ participants)
- 3rd runner-up at Hack Fusion 2024, NIT Jamshedpur (850+ participants)
- Top 10 at Hack Heritage 2024, Heritage Institute of Technology-Kolkata, and qualified for SIH 2024 (200 teams)
- Finalist at Hack-o-Fest 2024, NIT Patna (300+ participants)
- Finalist at StatusCode1 2024, IIIT Kalyani (600+ participants)