

ARIN GHOSH

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PROFILE

ISC graduate (99.5%, AIR 3) exploring how computing can explain and improve real-world systems, from Bengaluru's lake ecosystems and traffic queues to financial risk. Experience in AI evaluation, citizen science and teaching children in hospital learning programmes informs my interest in rigorous, socially useful applications of mathematics, computing and data science.

EDUCATION

Christ Academy ICSE School

Bengaluru, India | 2014 – 2026

- ISC (Class XII), 2026 — 99.5%, All India Rank 3 (top 0.1% nationally)
- ICSE (Class X), 2024 — 97.4%, All India Rank 13 (top 1% nationally)

EXPERIENCE

Outlier AI (Project Aether India) — AI Technical Specialist & Evaluator, Remote (Contract)

Oct 2025 – Jul 2026

- Engineered high-complexity prompt-response pairs to train frontier AI models.
- Evaluated technical accuracy, reasoning quality and adherence to detailed assessment criteria; ranked in the top 10% of evaluators for rubric adherence and technical accuracy.
- Authored multi-turn reasoning workflows, logic proofs, and edge-case test suites for RLHF models.
- Conducted technical quality assessments, reducing hallucinations and improving response structure across benchmark datasets.

Handshake AI (Project Seal India) — AI Evaluation Fellow / Specialist, Remote

Sep 2025 – Mar 2026

- Designed realistic, web-dependent benchmark prompts to evaluate and stress-test state-of-the-art LLMs.
- Curated reliable sources and built gold-standard search trajectories to establish ground-truth verification paths for complex reasoning tasks.
- Analyzed model search behaviors and retrieval performance to identify critical edge cases, hallucinations, and reasoning failures.

InAmigos Foundation (NGO) — AI Research Intern, Remote

Aug 2026 – Sep 2026

- Evaluated emerging AI tools, frameworks, and generative technologies to identify practical implementations for workflow efficiency.
- Analyzed engagement trends and volunteer datasets to generate actionable technical insights supporting data-driven decisions.
- Researched prompt engineering and AI model responses to streamline internal processes and improve AI-assisted project outcomes.

Deloitte (via Forage) — Data Analytics Job Simulation, Virtual

Sep 2026

- Machine Downtime Analysis: ingested and parsed large JSON telemetry datasets covering a month of factory machine data, isolated the locations and machine models with the highest breakdown frequencies, and built an interactive dashboard to visualize performance and drill down into device downtime.
- Gender Pay Equality Investigation (Forensic Technology): processed a corporate compensation dataset in Excel, wrote logical formulas to classify an "Equality Score" (-100 to +100) into Fair (± 10), Unfair, and Highly Discriminative tiers, isolated the job roles and factory locations with the most skewed pay gaps, and presented data-driven conclusions to the Forensic Technology team lead.

ACADEMIC PROJECTS

Koramangala–Challaghatta Valley Digital Twin Engine — [GitHub](#)

- Developed a Digital Twin model to simulate and monitor urban environmental impact across Bellandur and Varthur lakes, using multi-spectral remote-sensing algorithms to compute NDVI and NDWI indices.
- Built an interactive Streamlit/Matplotlib dashboard and engineered multi-dimensional NumPy calculations to visualize water-quality degradation, perimeter encroachment, and vegetation/urban-sprawl dynamics.

Financial Portfolio Simulator & Risk Calculator — [GitHub](#)

- Engineered a Java-based quantitative risk engine (OOP) to calculate multi-asset portfolio variance, expected returns, and Sharpe Ratio; ran Monte Carlo simulations of 2,000 annual return paths (Geometric Brownian Motion) to project 5-year net loss probabilities.
- Quantified 95% Value at Risk (VaR) across dynamic stock/bond allocations and designed an interactive Java Swing GUI with real-time sliders and a custom Java2D histogram canvas.

Dynamic Traffic Controller & Queue Simulator — [GitHub](#)

- Engineered a discrete-event simulator (custom Queue/LinkedList abstractions, stochastic distributions) that reduced simulated peak-hour vehicle wait times by ~48% versus static signal cycles.
- Architected a modular, decoupled OOP system (Car, TrafficLight, Intersection) to model state transitions and throughput optimization in urban road networks.

AI-Assisted RAG & Document Q&A Application — Google AI Studio, TypeScript, React, Node.js, Vector Embeddings — [GitHub](#) | [Live Site](#)

- Built an interactive Retrieval-Augmented Generation tool to address LLM hallucinations in technical document Q&A, using recursive text chunking and cosine-similarity vector search that preserved equations/LaTeX formatting.
- Developed an in-line citation engine mapping AI-generated answers to source chunk IDs, gaining practical insight into vector embeddings, nearest-neighbor retrieval, and semantic search.

LEADERSHIP & ACTIVITIES

Young Investors' Fellowship Programme 7.0, Finance and Investment Cell (FIC), Hansraj College — Top 30 Fellow & Case Competition

Runner-Up

Jul 2026

- Selected among the Top 30 participants nationwide, out of thousands of applicants, following a competitive gamified assessment and live Mockstock market simulation.
- Led a 6-member team to a runner-up finish in the flagship case competition; mastered Stock Markets, Personal Finance, and Corporate Valuation through faculty-led masterclasses.
- Earned a formal Letter of Recommendation and Certificate of Excellence from the Cell President for responsibility, dedication, and applied technical skills.

Hasiru Dala (NGO) — Event Management & Media Lead, ToT Glass Beer Bottle Reuse Event

Jul 2026

- Co-managed logistics and on-ground operations for a multi-nation Training of Trainers initiative on circular economy frameworks, coordinating delegates from 8 countries (Indonesia, Malaysia, Vietnam, Australia, Fiji, Philippines, Sri Lanka, Nepal).
- Spearheaded photography/videography coverage and curated assets for Hasiru Dala's international repository and post-event outreach.

- Christ Academy ICSE School — Team Lead & Lead Presenter, "Time Travel with Space Warp" Project** 2024
- Directed a team of 5 researching general relativity, wormholes, and Alcubierre warp-drive metrics; secured 1st place (Gold Medal, Cash Prize) out of 10 teams across a 3-stage elimination process.
- Christ Academy ICSE School — Vice Captain & Central Midfielder, Inter House Football Cup** 2023
- Led team to a 1st-place championship across 4 tournament stages; scored 5 goals from central midfield and coordinated tactics under knockout conditions.
- Christ Academy ICSE School — Quiz Master & Head of Quizzing, Questa Club** 2023
- Hosted the daily "Question of the Day" at morning assembly and led end-to-end management of "Questa Asks 2023," including question drafting, scoring rubrics, and stage flow.
- Christ Academy ICSE School — Coordinator & Student Trainer, School Chess Club** 2023
- Led regular training sessions mentoring junior players in tactics and endgame technique; organized an inter-student tournament, managing brackets and scheduling.
- Christ Academy ICSE School — Bronze Medalist, 200m Sprint, Annual Sports Meet** 2022
- Secured 3rd place out of 30 sprinters with a personal-best time of 23.45s after a rigorous speed and endurance conditioning program.

VOLUNTEERING EXPERIENCE

- Zooniverse — Citizen Science Volunteer** *Online (Remote) | Aug 28 – Oct 13, 2026 | 125.6 hours*
- Completed 413 classifications across 20 research projects on Zooniverse, the world's largest people-powered research platform, supplying human-verified data to research teams in astronomy, climate science, and ecology.
 - Astronomy & Space: flagged brown dwarf–star binaries in NASA WISE images (Backyard Worlds: Binaries); marked high-altitude cloud arches in Mars Reconnaissance Orbiter data (Cloudspotting on Mars); vetted Pan-STARRS asteroid candidates (IASC's Asteroid Search); searched Rubin Observatory images for blue blobs and diffuse galaxies (Rubin: Blobs and Blurs); classified galaxy morphology and flagged peculiar galaxies (Galaxy Zoo, Looking for Strange Galaxies).
 - Climate & Weather: transcribed handwritten 1864–1951 rainfall registers for Met Éireann (Irish Weather Rescue); sorted archival African weather-record images from 43 countries by legibility, name, and date (Weather Archive Africa); identified atmospheric gravity waves, instabilities, and aurora in images and video clips (Gravity Wave Zoo).
 - Marine & Wildlife: annotated dolphin presence and behavior in underwater and aerial Red Sea videos to support dolphin communication research (Dolphin Spotting); verified machine-learning predictions of algae and seafloor categories in ROV imagery for Seattle Aquarium kelp forest conservation (Kelp Quest).
 - Also contributed to: Artifact InSPeCtor, E-I-E-I-O No!, Florida Wildlife Watch, Frog Find, Overlap Zoo, Redshift Wrangler, We Cam Coexist, Wild Behavior – Philadelphia, Woodpecker Cavity Cam.
- Hasiru Dala — Photography and Videography Volunteer** *Bengaluru | Jul 2026*
- Directed end-to-end photography/videography coverage of the ToT Glass Beer Bottle Reuse Event, documenting international delegates across 8 countries and highlighting waste-picker empowerment and glass-packaging reuse.
- Samiksha Foundation — Student Educator Volunteer & Office Administrative Intern** *Bengaluru | Sep 22 – Oct 9, 2026*
- Delivered personalized instruction in Mathematics, English, and Science, plus drawing and coloring worksheets, to Grades UKG–10, including pediatric cancer patients and terminally ill children at Indira Gandhi Institute of Child Health and St. John's Medical College Hospital; adapted lessons to individual learning speeds and health constraints.
 - Completed the mandatory 30 hours: entered student progress notes, attendance, and new-student details at a learning centre and provided administrative support at the Foundation office.
 - Designed presentations, invitations, and save-the-date posts for the Samiksha Foundation Scholarships Event (SFSP 11) and the 2027 Foundation Calendar (Canva); contributed to drafting and compiling the 17th Year Annual Report.
- Shop for Change Fair Trade — Social Media & Campaign Volunteer** *Bengaluru | Mar 2026 – Aug 2026*
- Promoted fair trade principles and ethical sourcing to local communities and vendors; supported outreach campaigns and product showcases boosting visibility for certified fair-trade artisans.
- FYERS American Gambits, Global Chess League — Match-Day Operations & Player Support Volunteer** *Bengaluru | Sep 2026*
- Directed match-day logistics and fan engagement as a core student lead of the 'Gambits Gang,' cultivating a high-performance atmosphere for players.

COMMUNITY & SOCIAL IMPACT

- Sweepaws — Founder & Caretaker, Community Pet Shelter & Boarding Initiative** *Bengaluru | 2022 – 2024*
- Founded a non-profit, home-based pet sanctuary providing humane, hygienic care for a nominal fee to 15+ dogs and 3 cats, prioritizing animal welfare and affordable accessibility over commercial boarding.
 - Built a high-trust community network with strong local recognition and repeat bookings.

AWARDS AND HONORS

- CISCE Certificates of Merit, Perfect Scores in Physics and Chemistry, ISC (top 0.1% in India) — 2026
- Certificate of Excellence, AIR 12, IISc Young Scientist Challenge — 2026
- Top 30 Fellow, Young Investors' Fellowship Programme 7.0 & Runner-Up, Case Competition, FIC, Hansraj College — 2026
- National Scholar (x2) — 2024, 2026
- Excellent Performer Prize & Centum Scorer Prize, ISC XII Exams (2026) and ICSE X Exams (2024, 2026), Christ Academy
- Gold Medal & Certificate of Excellence, 1st Place, Christ Academy Science Seminar — 2024
- CISCE Certificate of Merit, Perfect Score in History, Civics & Geography, ICSE (top 0.1% in India) — 2024
- Gold Medal, 1st Place Football, Inter House Football Cup — 2023
- Bronze Medal, 3rd Place, 200m Sprint, Annual Sports Meet — 2022

SKILLS & INTERESTS

Technical: Java, Python, SQL, BigQuery, Looker, Looker Studio

Certifications: CS50x Introduction to Computer Science (Harvard); credentials below.



Google Cloud Data
Analytics Certificate



Google Analytics
Certification



Cisco Introduction
to Modern AI



Derive Insights from
BigQuery Data Skill Badge



IBM Getting Started
with Generative AI

Interests: Continuous learning & skill acquisition, football, chess, reading, photography & editing, traveling & exploring cultures, writing