Md Farhan Ishraq

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Current Research Interests

Web and computer-use agents (evaluation, visual skill libraries), agentic and multi-agent systems, vision-language models (visual question answering, visual reasoning), large language models (reasoning, hallucination), low-resource NLP, reinforcement learning.

Education

- **Islamic University of Technology (IUT)** *Aug 2023 – Oct 2027 (expected)*
  B.Sc. in Computer Science and Engineering; GPA: 3.88/4.00 (up to 5th semester) *Dhaka, Bangladesh*
  - **Thesis:** CULPRIT-VQA: Causal Attribution of Multimodal Failure Modes in Multilingual Cultural VQA

Publications

- **VisCurate: Evaluating Behavioral Equivalence of Visual Skills**
  Md Farhan Ishraq, Md Farhan Ishmam, Reaz Hassan Joarder, Md Hasanul Kabir
  WACV 2027 [Project Page] [Code]
  Curates visual skill libraries by what skills actually do: runs skill pairs on shared probe images and certifies one of six behavioral relations, each tied to a safe library edit.

Research Experience

- **The Computer Vision Lab, Islamic University of Technology** *Aug 2025 – Present*
  Student Researcher; supervised by Dr. Md. Hasanul Kabir and Reaz Hassan Joarder

Industry Experience

- **HawarIT Limited** *Sep 2026 – Oct 2026*
  AI/ML Intern
  - Processed and analyzed LiDAR point clouds to extract spatial features and improve data quality.
  - Built 3D modeling workflows that turn geospatial data into structured digital representations.
  - Supported mapping and feature extraction of roads, buildings and terrain for AI/ML applications.

Honors & Awards

- **Champion, Nascenia AI Hackathon 2026** *Sep 2026*
  Placed 1st among 100+ teams from universities and tech companies across Bangladesh, generating doctor-style replies to Bengali patient messages with BanglaT5 and Qwen3.5 under a 3-billion-parameter budget. [Code]
- **1st Runner-Up, HerWILL × UAP Safe Social Media Datathon 2026** *Sep 2026*
  Finished 2nd in a 24-hour datathon detecting explicit and subtle harmful content in Bangla, English and Banglish posts, with a stack of fine-tuned Gemma 4, Qwen3 and multilingual-e5 models. [Code]
- **Bronze Medal, Kaggriculture (Kaggle)** *Sep 2026*
  Finished 847th of 10,148 teams by building an agent for a 720-turn farming and market simulation, balancing planning, resource allocation and market timing. [Competition] [Code]
- **Honourable Mention, Blockchain and AI Olympiad Bangladesh 2026** *Sep 2026*
  Recognized in the Blockchain category for Obhoy and selected as a finalist for the International Blockchain Olympiad (IBCOL) 2026 in Hong Kong. [Code]
- **4th Place, Bengali LLM Hallucination Detection Challenge, IUT 12th ICT Fest** *Jul 2026*
  Placed 4th of 222 teams in an onsite datathon, reaching 0.913 macro-F1 with an open-weight model and no fine-tuning, through data curation and inference-time routing. [Competition] [Code]
- **Top 7 Finalist, HackCSB** *Aug 2024*
  Built Diagra, which generates diagrams and flowcharts from natural-language prompts. [Demo] [Devpost] [Code]

Projects

- **Meridian: Agentic Safety Navigation for Bangladesh** [Code] [Demo]
  A mobile app where autonomous agents read public news and police reports to build a live risk map of Dhaka, powering safety-weighted routing, incident reporting, journey monitoring and emergency SOS.
  Tools: React Native (Expo), TypeScript, FastAPI, Supabase (PostGIS), Redis, Celery, Gemini, Groq, Ollama, OSRM.
- **Obhoy** [Code] [Whitepaper]
  A multi-line blockchain claims-integrity protocol for low-trust insurance markets, giving claims an independently verifiable record that no party with a stake in the outcome controls.
  Tools: Hyperledger Fabric, Go, Solidity, Hardhat, Node.js, Docker.
- **Diagra** [Code]
  Generates diagrams and flowcharts from natural-language prompts using LLM agents.
  Tools: Python, CrewAI, LangChain, Llama 3, Django REST Framework, Graphviz.

Teaching & Volunteering

- **Stanford University: Code in Place** *Oct 2026 – Present*
  Section Leader, Probability for Artificial Intelligence *Remote*

Certifications

- Reinforcement Learning Specialization — University of Alberta *Sep 2026*
- Deep Learning Specialization — DeepLearning.AI *Sep 2026*
- Computer Science for Artificial Intelligence — HarvardX *Feb 2026*
- CS50's Introduction to Artificial Intelligence with Python — HarvardX *Feb 2026*
- CS50's Introduction to Computer Science — HarvardX *Sep 2025*
- Machine Learning Specialization — DeepLearning.AI *Jul 2025*
- Python Data Structures — University of Michigan *Feb 2025*
- Mathematics for Machine Learning and Data Science Specialization — DeepLearning.AI *Jan 2025*
- CS50's Introduction to Programming with Python — HarvardX *Jan 2025*

Technical Skills

Deep Learning Tools: PyTorch, Hugging Face, JupyterLab/Colab, Scikit-learn, Keras, OpenCV.
Programming Languages: Python, C++, C, JavaScript, Bash, Java, R.
Databases: PostgreSQL, MySQL, SQLite, Firebase, MongoDB, Oracle.
General Tools: Git, LaTeX, Draw.io, Visual Studio Code, Docker, Obsidian, Canva.
AI Coding Tools: Codex, Claude Code, Cursor, Antigravity.

Extracurricular Activities

- **Chess Champion, Islamic University of Technology** *2023 – 2026*
  Three consecutive years, across a 12-round competitive field of university players.
- **Commendation for Outstanding Contributions in Observational Astronomy** *Oct 2023*
  International Astronomical Search Collaboration: analyzed Pan-STARRS data for near-Earth and Main Belt asteroids.