

# Koushik Gautham Hariharan

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## Education

<b>Hindustan Institute of Technology and Science</b> <i>Bachelor of Technology in Computer Science Engineering in AI and DS</i>	Sept 2022 - Present Chennai, India
<b>Shibaura Institute of Technology</b> <i>Bachelor of Technology in Computer Science Engineering - Exchange student</i>	Sept 2024 - July 2025 Tokyo, Japan

## Projects

- Chopsticks Game** | *National Level Skill-a-thon 2023 Winner* | *Unity, C#, Aseprite*
- Designed and developed a pixel-style strategy game using **Unity Engine**, **Aseprite**, and **C#**.
  - Secured first place at the *National Level Skill-a-thon 2023* held at Hindustan University, Chennai.
- Financial Advisor Automation System** | *Business Automation* | *Next.js, n8n, Gmail API*
- Developed an end-to-end **automation system** for a financial advisor to streamline **order management and client communication**.
  - Implemented automated email parsing to fetch and process orders, with intelligent tagging and dashboard integration for real-time tracking.
  - Built automated email response system that triggers when the advisor accepts orders
- Marti – Mart for Artisans** | *Google Gen AI Challenge 2025* | *Flutter, Firebase, Gemini API, Google Cloud*
- Built an AI-driven marketplace empowering local artisans to showcase and sell handcrafted products.
  - Implemented core features including **Collaborate**, **Craft-it**, and **Product Legacy** to enable collaboration and product storytelling.
  - Enhanced artisans' digital presence and customer engagement through AI-based personalization and cloud integration.
- Archi LLM** | *Diagram Generation AI System*
- Built an adaptive AI system for generating **flowcharts, architecture diagrams, and mind maps** with coherent structure and readable layouts.
  - Supported both **text prompts** and **file-based inputs** (PPT/PDF/code), enabling automated extraction and diagram synthesis from real user content.
- Adversarial Prompt Detection using Pre-Trained Language Models** | *Python, JSON, Gemini API, Mesop*
- Researched methods to detect and mitigate adversarial prompts that bypass LLM security layers.
  - Proposed a fixed-parameter model as a prompt filter, achieving a 20% reduction in LLM load and 90% decrease in adversarial inputs.

## Professional Experience

<b>Automation Freelancing</b> <i>Hexor Tech</i>	Sept 2025 - Present Chennai, India
<ul style="list-style-type: none"><li>Developing scalable web and mobile applications with modern tech stacks</li><li>Implementing AI/ML solutions and automation workflows using <b>n8n</b></li><li>Managing <b>Cloud infrastructure</b> and <b>DevOps pipelines</b></li></ul>	
<b>Advisor of Google Genesis Club</b> <i>Hindustan Institute of Technology and Science</i>	Sept 2025 - Present Chennai, India
<ul style="list-style-type: none"><li>My role as an Advisor was to ensure that the club is functioning properly and to help the team problem-solve.</li></ul>	

## Technical Skills

**Languages:** C#, C++, C, Java, Python, Flutter, HTML/CSS, R  
**Developer Tools:** Unity Engine, Aseprite, Blender, Figma, FlutterFlow, Canva  
**Cloud & DevOps:** Docker, Supabase, Google Cloud, Zoho Catalyst, Git, AWS  
**Testing:** Playwright, Postman, Github Actions  
**Productivity:** Notion, MS Excel, Powerpoint, Word, VS Code  
**AI Tools:** Claude Code, Cursor AI, Github Copilot, OpenAI