

MARTAS THE ATOM GAUTAM

ENGINEER/RESEARCHER

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A confident and organized aspiring AI Enthusiast, driven by its potential to revolutionize sectors with the goal of enhancing the industrial, financial and agricultural sectors. I bring a strong work ethic, a thirst for learning and a unique perspective with the commitment to contributing positively to any team I join.

Github: <https://github.com/Azmart>

LinkedIn:

<https://www.linkedin.com/in/martas-the-atom-gautam-a7a714188/>

Website: <https://martas.site>

TECHNICAL SKILLS

Prompt Engineering, Pytorch &

Tensorflow2, Keras, Node.js,

ReactJS/VueJS, AWS, MySQL

Microsoft Azure, Next.js,

OpenCV4, OpenAPI,

Transformers, PostgreSQL,

Pandas, Numpy & Matplotlib

MongoDB, Streamlit, OpenVAS, Kali

Linux, Django,

ADDITIONAL LEARNING

- The Complete Machine Learning and Data Science Bootcamp, Udemy
- Modern Computer Vision Pytorch, Tensorflow2 Keras & OpenCV4, Udemy
- Advance Your Skills in Natural Language Processing learning path, LinkedIn Learning,
- Mental Health First Aid Captain, MHFA HK

SOFT SKILLS

Good Communication, Critical Thinking, Leadership, Resourcefulness, Teamwork, Openness to Criticism, Presentations,

WORK & EXPERIENCE

Product Researcher & Engineer at IX Fintech Group (2023/02 – 2024/03 (Intern) & 2024/07 – 2025/08 (Full Time)) & 2025-09 – Present (Part Time)

- Automated internal workflow of quarterly index review where we analyse the quarterly crypto market performance and perform index rebalance and re-constitution for 10 indexes using react and node.js.
- Help maintained the index infrastructure involving elastic services, redis, kafka, database, lambda etc to ensure dissemination does not stop as well as resolve any incident as soon as possible to minimise the damage.
- Helped in the development of the company intranet for efficient reporting, internal announcements, requests and approvals, password management, documentation management with access control across levels and departments using Django and next.js.
- Worked as management representative for ISO27001:2022 certification audit in both 2024 and 2025 and helped organization pass the exercise with Zero non-conformities.
- Performed penetration testing and security scans to organisation website using tools like OpenVas and Burpsuite
- Represented the company to present at Hong Kong ICT Awards 2024
- Researched and analysed the Digital Assets (Cryptocurrencies and Asset-Backed Tokens), understanding their nature and underlying protocol to classify them based on the [Digital Asset Industry Classification System® \(DAICS®\)](#) Methodology.
- Panel Speaker at [TechSauce Global Summit 2023](#) Bangkok on "Web 3 & Crypto Adoption and Regulation"
- Best Presenter at [HK Fintech Impetus Award 2023](#) by KPMG/Metro Radio

Software Quality Assurance Engineer (Intern) at IX Fintech Limited

2021/06-2021/08

Identified and documented issues and defects in the company's mobile application and suggested new features.

AI Engineer (Intern) at Movelt Movelt

2022/12-2023/01

Cleaning and pre-processing of thousands of data for furniture detection algorithm that used yolov5

EDUCATION

Hong Kong Baptist University, Hong Kong (2020-24)

Major: Bachelor of Science (Hons) in Computer Science (CGPA 2.88)

- Concentration in AI (NLP) with FYP research on '*From Romanised Nepali to Pure Nepali: AI Transliteration Using Transformer Architecture for Low-*

LANGUAGES

Nepali (Native)
English (Professional)
Hindi (Professional)
Japanese (Basic)

HOBBIES & LIKES

Hiking, Numismatics, Street Food,
Anime, Tea tasting, Football, Cricket

Resourced Languages'. Fine-tuned custom model, mT5, Llama 3.0 for Nepali language transliteration. Created world's largest corpus of parallel pure Nepali and Romanised Nepali text, with language unique sentence de-duplication & transliteration techniques. [Demo \(DemoV2\)](#)

- Grand Winner of Asia Pacific ICT Alliance Awards 2024 defeating participants from 17 nations, held in Brunei for Tertiary Student Projects: Applications, while representing Hong Kong SAR as one of the only 3 projects in this category. [HKBU COMP News](#)
- Won 'Best Practical Value Project Award' & 'First Class Project' at Cross-Strait Hong Kong and Macau University Students Innovation IT Project Competition 2024. Recipient of EDPS Innovative Scholarship Program 2024 (Individual Project) as well for FYP.

Minor: Entrepreneurship and Business Education

EXTRA PROJECTS

Project-Management: Worked as project manager to complete web development projects such as: <https://janatakomanch.com/np> , <https://www.careermandu.com/> , <https://kritrimbaudhikata.com/en> , <https://kribaat.com/> , <https://cineartlink.com/> .

Web-Development and AI: Developed AI powered websites and workflows for clients during free-lance work such as: <https://scholarport.co> , <https://finyehk.com> , <https://mig-alpha.vercel.app> with features of payment integration, member portal, intranet, finance dashboards, chatbots for Q&A, custom requests, WhatsApp automation. Number of other projects underway for small businesses in F&B, finance and service training. Developed AI model to play traditional Nepali game of 'Bagh Chal' based on the Monte-Carlo tree search inspired by DeepMinds Alpha-Go. <https://github.com/KritrimBaudhikata/Baghchal>

Mobile-Development: Developed an open-source mobile application using react-native for day-to-day utilities for which people usually have to search the internet. Pending Google Play and App Store verification. <https://github.com/KritrimBaudhikata/SuperApp>

EXTRA-CURRICULAR ACTIVITIES

Executive Committee Member, FINYE HK (2025/11-Present)

Part of Executive committee for Hong Kong chapter of FINYE (<https://finyehk.com>). Working towards promoting entrepreneurship amongst the youths of Nepali diaspora in Hong Kong. Helped organise various events towards targeted groups such as students for career building and SMEs for helping with IT adoption especially for AI.

Non-Local Mentor at Undergraduate Halls, HKBU (2023/08-2024/05)

Appointed as the mentor for non-local students living in the Undergraduate Halls of HKBU for S.R Zhou Hall for AY 2023-24. Facilitated the living of non-local students and organized various activities such as hiking and global fruits etc for hall residents in collaboration with the Hall Tutor and Resident Master.

Consulation & Training

Provided consultations to clients on IT adoption and AI integration into businesses as well as trained them to use digital tools. Will be giving 2-hour session during an AI seminar scheduled towards the end of May targeted at SMEs for AI adoption.