

# Vinamra Sharma

Glasgow, United Kingdom | Mobile: +44 7436989112 | Email: [vinamrasharma5@gmail.com](mailto:vinamrasharma5@gmail.com)

Website: [vinamrasharma.com](http://vinamrasharma.com), LinkedIn: [in/vinamra-sharma](https://in/vinamra-sharma), Publication: [Google Scholar](#), Devpost: [vnmrsharma](#)

## Summary

AI Engineer and PhD researcher at the University of Glasgow focused on AI Compilers, EdgeAI, and scalable AI systems. Experienced in building production-grade GenAI and ML platforms with measurable business impact, including systems serving 17,000+ daily queries and contributing £500k+ ARR. 65+ international hackathon & research award winner, and strong collaborator across research, startups, and innovation initiatives.

## Technology Stack and Skills

**Programming:** Python, C++, C, JavaScript, Swift, OCaml, Dart

**AI/ML:** PyTorch, TensorFlow, Keras, Scikit-learn, OpenCV, Pandas, NumPy, NLTK

**Compiler & EdgeAI Systems:** MLIR, LLVM, TensorFlow Lite, uTensor, TinyML, Model Optimization, On-device Inference

**LLM & GenAI:** OpenAI SDK, LangChain, LlamaIndex, Ollama, Gemini, Llama 2/3, DeepSeek, Mistral

**Frameworks & Infrastructure:** FastAPI, Flask, React.js, Flutter, Docker, AWS, GCP, Hugging Face, Linux

**Tools & Workflow:** Git, Jira, Notion, Selenium, n8n, WordPress, Cursor

## Education

> <b>University of Glasgow</b> PhD in Computing Science	Oct 2025 - Present Research Focus: <b>AI Compilers</b>
> <b>University of Glasgow</b> MS in Computing Science	Sep 2022 - Sep 2023 Thesis Grade: <b>A3</b>
> <b>BTKIT, Uttarakhand Technical University</b> B.Tech in Computer Science and Engineering	Aug 2018 - Aug 2022 Score: <b>83.3%</b>

## Work Experience

<b>AI Engineer</b> at Unineed Limited (Glasgow, UK)	July 2024 - Present
> Architected end-to-end GenAI solutions for customer service, processing 17,000+ queries daily, saving 150+ team-hours weekly and improving response time by 260%.	
> Built AI-powered buying and automation engines integrating scraping, pricing intelligence, and automated procurement across 25+ global marketplaces, improving operational efficiency by 5x.	
> Developed scalable AI pipelines for product image generation, SEO automation, and content optimization, contributing £500k+ ARR growth and improving ROAS, CTR, and conversion metrics by 3x.	
<b>Full Stack Developer</b> at Amped Digital (Glasgow, UK)	Aug 2023 - July 2024
> Led end-to-end development of an AI-driven analytics platform for real-time KPI forecasting and marketing intelligence using GCP infrastructure and custom-built ML pipelines.	
> Contributed to securing £50,000 UKRI funding through technical leadership, product architecture, and rapid MVP delivery.	
> Optimized GCP workflows, improving reliability, deployment velocity, and reducing infrastructure cost by 36%.	

## Awards & Accomplishments

- > **2026:** Grand Prize Winner (The Climate Change-Makers Challenge 2026)
- > **2025:** College Scholarship (Awarded for 3.5 Years of PhD by School of Computing Science, University of Glasgow), Best of the Rest Award Winner (Climate Change Maker Challenge 2025), 3<sup>rd</sup> Prize (Animal Hacks 2025), Winner (AI in the Outback)
- > **2024:** Best Paper in Track Award (IEEE RTSI 2024), Employee of the Month Award at Unineed Limited, 2<sup>nd</sup> Prize for Poster Presentation by IEEE, Selected as Youth STEM Changemaker (Youth STEM 2030), Best Pitch Award (Pitch for Earth, Sweden)
- > **2023:** Winner Hack for Earth 2023 (Invited to work with UNICEF), Runner-up Amazonia Hack (Earth Hacks, Brazil), Runner-up Code to Give (Morgan Stanley, UK), Winner FDM Design Challenge (Glasgow, Scotland), Mystery Award Winner the Climate Change Maker 2023, Best Chinachem Group Award at PolyHack 2023 (China)

## Projects

- > **MimixAI:** AI-powered market research tool that creates human-like personas to interact with in real time to get instant qualitative feedback.
- > **Magellan AI:** An AI Tour Guide: Vision + NLP powered interactive travel guide that personalizes tours in real time.
- > **Eatbly:** Smart nutrition planner application that generates personalized meal plans.
- > **TerraVerde:** Data driven platform for accelerating renewable-energy site selection and permitting.
- > **SustainEdge:** GenAI Webapp that evaluates AI model carbon footprints based on workload and recommends the most energy efficient option.
- > **SpreadRo:** An autonomous multipurpose rover that seeds grass in summer and spreads ice melt in winter.

## Recent Publications

- > [Sharma, V., Fu, X., Haris, J., & Cano, J. \(2026\). LLM-Driven Design Space Exploration of FPGA-based Accelerators. \(Paper\) \[InSyDe at EuroSys 2026\]](#)
- > [Sharma, V., Pau, D. and Cano, J. \(2025\) EdgeAI Models for Human Activity Recognition on Low-Power Devices, Seventh UK Mobile, Wearable and Ubiquitous Systems Research Symposium. \(Abstract\)](#)
- > [Sharma, V., Pau, D. P., & Cano, J. \(2025\). Biases in Edge Language Models: Detection, Analysis, and Mitigation. \(Paper\)\[EDGE AI Research Symposium\]](#)
- > [Sharma, V., Pau, D., & Cano, J. Efficient Tiny Machine Learning for Human Activity Recognition on Low-Power Edge Devices. In 2024, IEEE 8th Forum on Research and Technologies for Society and Industry Innovation \(RTSI\) \(pp. 85-90\). IEEE. \(Paper Link\)](#)

## Extracurricular Involvements

**Organizer** at Google Developer Group Glasgow (Dec 2023 - Present) | **Youth STEM Changemaker** at Youth STEM 2030 | **Founder** at **Mcurio & ClimateThread** (May 2021- Present) | **Policy for People Fellow** at Harvard Innovation Labs (2021) | **Technology Lead** at POWAN (2022)