

AYESH AHMAD

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OBJECTIVE

Founder and researcher focused on neuromorphic AI and efficient edge inference under hard constraints.

EDUCATION

Bachelor of Software Engineering, National University of Sciences & Technology 2021 – 2025
Relevant Coursework: Machine Learning, Deep Learning, Reinforcement Learning, Numerical Optimization, Linear Algebra, Probability & Statistics, Calculus, Data Structures & Algorithms, Embedded Systems.

SKILLS

Programming	Python, C/C++, CUDA, Verilog
Machine Learning	Hardware-Aware Learning, Evaluation, SNNs, Computer Vision, Optimization
MLOps	Compilers & IRs, Runtime Systems, Edge AI, Model Deployment

EXPERIENCE

Co-Founder & CTO CVision	Mar 2025 - Present <i>Wyoming, USA</i>
ML, CV, & SW Design Engineer Cowlar (YC-W17)	Jul 2024 - Mar 2025 <i>Tennessee, USA</i>

• Founded and scaled AI services startup to \$70K+ revenue in 6 months.
• Owned technical strategy across applied research and production systems.
• Led cross-functional teams delivering mission-critical AI deployments across the USA and Europe.

• Built ML/CV systems achieving $40\times$ manufacturing throughput gains.
• Architected ML/CV pipelines achieving $5\ \mu\text{m}$ precision in production fiber organizer and termination line.
• Shipped real-time edge AI models optimized for constrained hardware (Qualcomm Snapdragon).

PROJECTS

Vaultbot. An intelligent customer service assistant for NUST's on-campus banks, built using open-source LLMs and platforms. Developed as per request of Prof. Dr. Faisal Shafait at SEECS, NUST.

M.A.S.S. Massively available surveillance system created using a network of IoT-cams and activity recognition to classify and track malicious activity across the connected areas.

GPT-2 from Scratch. Recreating GPT-2's decoder-only transformer architecture and training it on FineWeb-Edu to predict the next token in a sequence.

EXTRA-CURRICULAR ACTIVITIES

- Actively write [blog posts](#) and social media posts ([Instagram](#), [X](#)) frequently sharing perspectives on industry, art forms, poetry, and life.
- Frequent donor and volunteer for NUST Animal Rescue for which I was a founding member.

LEADERSHIP

- Demonstrated technical leadership in fast-moving, high-ambiguity environments. Led small, senior teams from problem formulation through production delivery. Known for setting technical direction and maintaining execution velocity under constraints.