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   Mar 2025 - Present
CVision   *Wyoming, USA*

- 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.

ML, CV, & SW Design Engineer   Jul 2024 - Mar 2025
Cowlar (YC-W17)   *Tennessee, USA*

- Built ML/CV systems achieving 40× manufacturing throughput gains.
- Architected ML/CV pipelines achieving 5 μm 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.