

# AYESH AHMAD

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## OBJECTIVE

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

## EDUCATION

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**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

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<b>Programming</b>	Python, C/C++, CUDA, Verilog, TypeScript, SQL
<b>Machine Learning</b>	Hardware-Aware Learning, Neuromorphic Computing, Computer Vision, Optimization
<b>MLOps</b>	Compilers & IRs, Runtime Systems, Edge AI, Model Deployment

## EXPERIENCE

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<b>Co-Founder &amp; CTO</b> CVision	Mar 2025 - Present <i>Wyoming, USA</i>
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- 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.

<b>ML, CV, &amp; SW Design Engineer</b> Cowlar (YC-W17)	Jul 2024 - Mar 2025 <i>Tennessee, USA</i>
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- Built ML/CV systems achieving 40× 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

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**Automated Fiber Termination & Sorting System** Helped Design and deploy a patented ML/CV-driven robotic system delivering 5  $\mu\text{m}$  precision, 96% first-pass yield, and 40× throughput for industrial-scale fiber line.

**Smart Shopping Cart** Led SmartCart action-recognition ML, deploying dual edge (Android/Qualcomm NPU) and cloud inference, with custom video models achieving 90% accuracy for real-time customer interaction detection.

**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

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- 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

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- 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.