ANSHAM MAURYA

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SUMMARY

Deep Learning Engineer with expertise in CUDA, neural networks, and building ML systems from scratch. Experienced in implementing ANN, CNN, RNN, LSTM, and custom GPU kernels. Seeking AI/ML roles where I can work on model research, AI infrastructure, and high-performance deep learning systems.

SKILLS

- AI/ML: Neural Networks (ANN, CNN, RNN, LSTM), Sequence Modeling, ML Algorithms
- Frameworks: PyTorch, TensorFlow (user-level), Custom ML Frameworks
- Languages: C++, CUDA, Rust, Python
- Systems: GPU Programming, Kernel Optimization, Memory Handling
- Math: Linear Algebra, Calculus, Optimization, Probability
- Tools: Git, Linux, Jupyter, Docker
- Other: Data Analysis, DSA

WORK EXPERIENCE

Developer Intern — AI Agent & Automation
May 2025 – July 2025 | Lucknow, India

- Worked on AI-based automation tools including trending niche detection and content generation models.
- Enhanced model inference speed and resolved performance bottlenecks.
- Conducted experiments, validated outputs, and improved reliability of automation workflows.
- Used version control, created internal utility scripts, and participated in model design discussions.

PROJECTS

TorchLessCUDA — Custom Deep Learning Engine (C++ + CUDA)

- Engineered a complete deep learning framework without PyTorch/TensorFlow.
- Implemented GPU kernels for convolution, pooling, activation functions, and backpropagation.
- Designed tensor storage, memory optimization, and kernel scheduling for CUDA.
- Built training loops, optimizers (SGD, Momentum), and data loaders.
- Demonstrated deep understanding of DL architecture internals.
- GitHub: ANSHAM1/TorchLessCUDA

Scratch Neural Networks — LSTM, RNN, ANN (C++)

- Implemented multiple neural architectures from scratch to understand low-level ML internals.
- Built an LSTM network including input, forget, output gates and backprop through time.
- Designed vanilla RNN and ANN with forward + backward passes.
- GitHub: ANSHAM1/LSTMiniNet | ANSHAM1/ScratchRNNilla | ANSHAM1/ScratchANNet

SentinelAI NIDS — Network Intrusion Detection System

- XGBoost and LSTM models working together to detect network anomalies and malicious traffic.
- Improved detection precision and reduced false positives with optimized models.
- Focused on real-time response and efficient feature extraction.
- GitHub: ANSHAM1/SentinelAI_Nids

EDUCATION

B.Tech. in Computer Science
GLA University | Aug 2023 – Aug 2027
GPA: 8.14