

SWARIT SHUKLA

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Professional Summary

Computer Science undergraduate specializing in Artificial Intelligence & Machine Learning with a strong interest in Natural Language Processing and Large Language Models. Experienced in implementing foundational machine learning and NLP architectures from scratch to develop a deep understanding of modern AI systems. Passionate about building practical AI applications and reasoning systems.

Technical Skills

Programming: Python

AI / NLP: LLMs, NLP, Transformers, Language Modeling, Deep Learning

Frameworks: PyTorch, TensorFlow

Data Science: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn

Tools: Git, GitHub, Linux, Docker, Jupyter Notebook, Cursor, VS Code, OpenAI Codex

Selected Projects

Transformer Architecture - Implemented the original Transformer architecture from scratch using PyTorch.

WaveNet for Text Generation - Recreated WaveNet for autoregressive character-level text generation.

Foundational NLP Architectures - Built Bigram and Neural Probabilistic Language Models from scratch.

Foundational ML Architectures - Implemented regression models, neural networks, backpropagation and anomaly detection from scratch using NumPy.

Education

SRM Institute of Science and Technology (SRMIST), Delhi-NCR Campus

B.Tech in Computer Science & Engineering (AI & ML)

2024-2028 | CGPA: 8.53

Certifications

- Machine Learning Specialization — Stanford University & DeepLearning.AI
- Deep Learning Specialization — DeepLearning.AI
- Mathematics for Machine Learning — DeepLearning.AI