


Karan Sharma

Personal Details

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Skills

Languages: C, C++, Java, Python, NumPy

Machine Learning and LLM (Github): PyTorch, spaCy for NLP tasks

Frontend Development: HTML, CSS, JavaScript

Database Management: MySQL

Data Structures & Algorithms: Proficient in fundamental Data Structures and Algorithms concepts.

Soft Skills: Adaptability, Collaboration, Effective communication, Leadership

Certification : Microsoft Azure AI Fundamentals (AI 900) ([Certificate](#))

Projects

Implemented Transformer Model For Language Translation ([Github](#)):

- Developed and implemented a Transformer model for language translation using PyTorch.
- Built custom modules including LayerNormalization, FeedForwardBlock, InputEmbeddings, PositionalEncoding, and MultiHeadAttentionBlock.
- Designed the encoder and decoder architecture, implemented residual connections, and ensured model scalability and efficiency.

Stable Diffusion Model Development ([GitHub](#)) :

- Designed and implemented a robust stable diffusion model for various applications.
- Utilized the CLIP model for advanced text and image understanding and generation.
- Implemented Variational Autoencoder (VAE) for encoding and decoding image data.
- Employed a diffusion model to enhance image generation and denoising processes.

Blogging Website ([Github](#))

- Developed a website using Node.js and Express.js, integrating MongoDB for efficient data storage and retrieval.
- Incorporated user authentication and authorization features.

Education

Vellore Institute of Technology, Vellore (2022-2026)

B.tech in Computer Science with a current CGPA of 9.41

Swami Vivekanand Public School (2020-2022)

Graduated High School with 92%