

Vishesh Shekhawat

☎ +91-6376960505 ✉ visheshbanna0@outlook.com in linkedin.com/in/vishesh-shekhawat

Projects

Denoising Diffusion Probabilistic Model (DDPM) [GitHub] *PyTorch*

- Implemented full DDPM pipeline with UNet-based noise predictor; designed linear and cosine β -schedules.
- Conducted experiments on sampling steps to improve convergence stability and visual fidelity.

Stable Diffusion (Text-to-Image Generation) [GitHub] *PyTorch*

- Reimplemented Stable Diffusion with CLIP encoder, latent UNet, and VAE; built complete latent inference pipeline.
- Applied classifier-free guidance for improved prompt alignment and generation quality.

VoyageAI – Agentic AI Trip Planner [GitHub] *Python, LLMs, API Integration*

- Built agentic AI system generating real-time, budget-aware travel itineraries using weather, attraction, hotel, and currency APIs.
- Implemented multi-tool orchestration, reasoning-based planning, and automated cost aggregation.

Education

M.Tech in Artificial Intelligence (Generative AI) 2025 – Present
National Institute of Technology, Jalandhar CGPA: 8.78 / 10

B.Tech in Computer Science and Engineering 2020 – 2024
Sobhasaria Group of Institutes, Rajasthan CGPA: 8.45 / 10

Achievements / Certifications

- Solved 300+ DSA problems on LeetCode (Top 32% globally)
- Ranked #1844 on GateOverflow (99.91 percentile).
- Qualified GATE 2024 and GATE 2025.
- Linear Algebra for Machine Learning and Data Science – DeepLearning.AI (2025).
- Intermediate Machine Learning – Kaggle (2025).

Skills

Programming: Python, C/C++

Machine Learning: Supervised & Unsupervised Learning, Model Evaluation, Feature Engineering

Deep Learning: CNNs, VAEs, GANs, Diffusion Models

Generative AI: DDPM, Stable Diffusion, Latent Diffusion

Libraries: PyTorch, TensorFlow, Scikit-Learn, NumPy, Pandas

Core CS: Data Structures & Algorithms