

# Shivam Vats

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## EDUCATION

### Indian Institute of Information Technology, Design and Manufacturing

*B.Tech in Artificial Intelligence and Data Science*

Kurnool, AP

*Aug. 2023 – Present*

### Greenland Sr. Sec. Public School

*High School, Science*

Dattaaur, Rohtak (HR)

*June 2022*

## EXPERIENCE

### Machine Learning Researcher

*Next-Gen Computing and Networking (NGCN), IIITDM Kurnool*

Jan. 2025 – Present

*Kurnool, AP*

- Conducting research in Machine Learning under Dr. Srinivasa Desikan.
- Exploring fine-tuning and evaluation of Large Language Models (LLMs), with a strong focus on transformers.

## PROJECTS

### Sentiment Analysis using Pretrained Transformers

[GitHub](#)

*Hugging Face, Python, BERT, LSTMs, Matplotlib*

- Fine-tuned a BERT model for sentiment classification on IMDb and Twitter datasets.
- Visualized word embeddings using t-SNE and PCA for trend analysis.
- Compared performance with traditional RNN and LSTM models.

### Movie Recommendation System

[GitHub](#)

*Python, Pandas, NumPy, Scikit-learn, SVD, Cosine Similarity*

- Processed 9,000+ movies from the MovieLens dataset.
- Achieved 92% accuracy in movie similarity calculations using cosine similarity.
- Implemented SVD matrix factorization with 50 latent factors for enhanced recommendations.
- Generated real-time recommendations in under 1s.

### Portfolio Website – Showcasing Projects

[GitHub](#)

*HTML, CSS, JavaScript*

- Designed and deployed a personal portfolio website: [shivamvats.netlify.app](https://shivamvats.netlify.app).
- Implemented a responsive and interactive UI with animations for a seamless experience.

## RELEVANT COURSEWORK

Data Structures  
Design and Analysis of Algorithms  
Database Management Systems  
Artificial Intelligence

## CERTIFICATIONS

Machine Learning for Engineering and Science Applications (NPTEL)  
Google Data Analytics Professional Certificate  
IIT Bombay Certified Python 3.4.3 Training (NPTEL)

## SKILLS

**Languages:** Python, Java, C  
**Web Development:** HTML, CSS, Flask, Gradio, Figma  
**Machine Learning:** Transformers, Scikit-learn, TensorFlow, PyTorch, Hugging Face, BERT, LSTMs  
**Developer Tools:** Git, VS Code, PyCharm, IntelliJ, Eclipse  
**Libraries:** Pandas, NumPy, Matplotlib  
**Others:** Spreadsheets, Power BI