

# 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*

Dattaur, Rohtak (HR)

*June 2022*

## EXPERIENCE

### Machine Learning Researcher

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

Jan. 2025 – Apr. 2025

*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

### Sage – AI-Powered Desktop Assistant

[GitHub](#)

*Python, PyQt5, Cohere, Groq, Selenium, Stable Diffusion*

- Built a voice-enabled AI assistant with a PyQt5 GUI for task automation, real-time search, and content generation.
- Integrated conversational AI (Cohere, Groq), image generation (Stable Diffusion), and system control features.
- Implemented speech-to-text and text-to-speech for natural voice interaction using Selenium and edge-tts.

### AI-Powered News Agent

[GitHub](#)

*Python, Transformers, SQLAlchemy, Telegram API, Asyncio*

- Developed an AI-powered news aggregator that scrapes, summarizes, and publishes articles to a Telegram channel.
- Used Hugging Face transformers for zero-shot topic classification and abstractive summarization.
- Designed an asynchronous, modular architecture using `asyncio`, `aiohttp`, and job scheduling with `schedule`.
- Built a scalable pipeline with separate scraping, NLP, and publishing layers backed by SQLite and SQLAlchemy ORM.

### 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 (IIT Madras, NPTEL)  
Google Data Analytics Professional Certificate (Google, Coursera)  
IIT Bombay Certified Python 3.4.3 Training (Spoken Tutorial - IIT Bombay)

## SKILLS

**Languages:** Python, Java, C, SQL  
**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