

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

Research Intern - GenAI

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

Jan. 2025 – Present

Kurnool, AP

- Conducting research in Generative AI under Dr. Srinivasa Desikan.
- Contributing to Prompt Archaeology research to find methods to reverse engineer prompts from AI-generated text.

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.
- 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, PyTorch, Hugging Face, LangChain, RAG
Developer Tools: Git, VS Code, Linux
Libraries: Pandas, NumPy, Matplotlib
Others: Spreadsheets, Power BI