Shivansh Gupta

Undergraduate Student

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Professional Profile

Passionate and dedicated student with great enthusiasm for the world of deep learning and artificial intelligence, with a strong foundation in the theoretical aspects of AI and a desire to make a real-world impact.

Work Experience

Personifwy Inc. **July 2023 - September 2023:** ***AI Intern***

- During my internship, I implemented a real-time image recognition software with component segmentation, employing **RNNs** and **ResNET-50**.
- Additionally, I enhanced an existing **sentiment analysis** model through the integration of **sequential neural networks**, resulting in a substantial **5%** accuracy improvement. My work consistently demonstrated precision and loss optimization in project delivery.

Vellore Institute of Technology **August 2023 - Present:** ***Undergraduate Researcher***

- Working under the professors from School of Computer Science and Engineering in the field of generative Al and computer vision.
- Currently working on a novel paper to enhance the **automated detection of tuberculosis by integrating GANs** to enhance the existing datasets and exploring object detection techniques.

Education

Vellore Institute of Technology **Expected 2026:** *B.Tech. Computer Science and Engineering*

- CGPA: 9.35
- Advisory member - VITMunSoc
- Core Member - IEEE / Apple's Developers Group / The AI ML Club

Technical Skills

- **Languages:** Python, C++, C, Java, HTML, CSS, Javascript
- **Libraries:** Pytorch, Tensorflow, Numpy, Pandas, SkLearn, Matplotlib, LIME, SHAP, LRP
- **Technologies:** Deep Learning, GANs, Computer Vision, Explainable AI, NLP

Projects

- GAN-Augmented Data Synthesis for Enhanced Tuberculosis Detection from Sputum Samples using Deep Learning Models (ongoing).
- CogniPet: An Advanced Pet Face Classification System powered by ResNet-50.
- Quantitative Analysis of Sentiments in IMDb Reviews: A Text Classification Approach.
- Loss Analysis and Comparative Evaluation of Classification Models on the Iris Dataset.