# **Vidit Singh Negi**

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#### **EDUCATION**

→ Jaypee Institute of Information Technology, Noida (Btech in Computer Science)

2020 - 2024

→ Bal Bharti Public School, Noida (12th CBSE Boards - 92%)

2018 - 2020

#### **WORK EXPERIENCE**

## Al Engineer Trainee | Monotype - Noida

(August 2024 - Present)

Email: viditsn@gmail.com

- Researched, built, and deployed GenAl models, including Diffusion models, GANs, and Transformers, using PyTorch, FastAPI,
   Docker, and cloud platforms (AWS/Azure).
- Developed BERT-Diffusion for font generation, reducing design time by 30% (Patent pending).
- Built a three-stage diffusion model for Japanese fonts, achieving >90% IoU (15% improvement).

## Python Developer Intern | Polynomial.Al - Remote

(June 2024 - July 2024)

- Developed REST APIs using Flask, integrated MongoDB for data storage, and automated sales report extraction with Selenium.
- Designed an automation pipeline that reduced manual effort, improving productivity by 25%.
- Managed sales report handling with Flask APIs, MongoDB, and AWS S3.

## Computer Vision Intern | GreenTech ITS LLP - New Delhi

(April 2024 - May 2024)

- Worked on Automatic Number Plate Recognition (ANPR) and Abandoned Object Detection using YOLOv8, YOLO-NAS, and DeepSort.
- Optimized model inference with TensorRT and ONNX, making it 4x faster (4it/s to 1it/s).
- Deployed models via Docker, improving ANPR accuracy from 85% to 93%.

#### **SKILLS**

Programming: Python, C++, CUDA, Data Structures & Algorithms (450+350 problems solved on Leetcode & Coding Ninjas)

Frameworks: Django, FastAPI, Flask, PyTorch, TensorFlow, LangChain, Scikit-learn, Selenium

Tools: MySQL, MongoDB, Docker/Kubernetes, Kafka, Cl/CD, Wandb, AWS, Azure

Others: Linux, Git/GitHub, Postman, VS Code, Jupyter

#### **PROJECTS**

Chest Cancer Detection Web App | TensorFlow, MLflow, Docker, Flask, AWS

Source code

- Developed a **high-precision (95%) tumor detection model** for medical applications.
- Implemented a structured ML pipeline with MLflow for model monitoring and comparison.
- o Deployed as a Docker container on AWS via CI/CD.

## Multimodal Vision-Language Model (PaliGemma) | PyTorch, Flask

Source code

Built a state-of-the-art vision-language model for advanced image-based question answering.

## Article Q&A with RAG | LangChain, FAISS, Streamlit

Source code

- Designed a research tool that extracts and processes information from online sources.
- Web-scraping the URLs, splits the data into chunks, passed through OpenAl's Ada-v2 embedding encoder.
- Used OpenAl's Ada-v2 embeddings and FAISS for 30% faster content retrieval.

#### **CERTIFICATIONS**