

Samyak Nahar

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Skills

Core Languages: C++ • Python • C

Machine Learning: TensorFlow • CNN • Image Processing • OpenCV • NLP • LLM

Web Dev: HTML & CSS • JavaScript • Django • React • MySQL

Education

VIIT COLLEGE OF ENGINEERING

8.23 CGPA (current) (2021 – 2025)

12TH | JAIN FATTECHAND

81.67% (2019-2021)

10TH | VIDYA NIKETAN

78.20% (2009 – 2019)

Extra-curricular

Activities

- Participated at SIH (Smart India Hackathon)
- Participated at NASA Hackathon

Hobbies

- Exploring cool Python libraries
- Playing Chess, Football
- Gym

Certifications/

Courses

- TensorFlow - Udemy
- PyTorch - Udemy
- Computer Vision - Udemy
- OpenCV - Udemy
- Web-Dev - Udemy
- Django - Django docs

Profile

Pursuing a B-Tech in Artificial Intelligence & Data Science at VIIT. Passionate about AI, with practical experience in NLP and Computer Vision. Possess a strong understanding of the mathematics behind AI. Seeking an internship in ML, NLP, or Computer Vision.

Experience

FEB 2023-JULY 2023

Intern | Millennium Semiconductors

- Led backend development project and collaborated with senior engineers.
- Proficiently worked with Large Language Models (LLMs) for integration.
- Optimized algorithms to significantly improve search efficiency and data retrieval.
- Streamlined data gathering from various APIs.
- Received appreciation from the leads for effectively integrating Large Language Models (LLMs) to enhance application functionalities.
- Tech Used: LLMs, TensorFlow, API, React, Django, JavaScript, HTML, CSS.

Projects

Chat with LLM using pdf and SQL Database in Natural Language

- Developed a system using LLM(in this case Gemini) for three functionalities:
 - 1) Chat with an LLM
 - 2) Querying PDF,Text documents
 - 3) Natural Language queries on an SQL database + LLM.
- Implemented with a React frontend and Django backend.
- Tech Stack: Python, LLM (Gemini), Embeddings, LangChain, React, Django.

Real-Time Binary Classification + Gesture control

- Created a tool that uses a webcam to collect data and instantly train a CNN model to classify objects.
- This tool learns from the data it collects, improving its identification capabilities over time.
- Integrated a Django web app for real-time object classification alongside gesture control features, allowing users to adjust volume and brightness with simple hand gestures.
- Tech Stack: CNN, OpenCV, Python, JavaScript, Django, React.

MakeMore: Text Generation with RNNs

- Developed a character-level recurrent neural network (RNN) inspired by Andrej Karpathy's MakeMore series to generate text sequences.
- Implemented various RNN architectures, including LSTM and GRU, to experiment with different sequence modelling capabilities.
- Trained the models on diverse text datasets, optimizing hyperparameters to improve text generation quality.
- Applied Backpropagation in Neural Networks from Scratch.
- Tech Stack: Python, PyTorch, Numpy