Om Shah

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Profile

I am a Computer Engineering student at MPSTME, NMIMS University with a strong background in software development, machine learning, and full-stack web technologies. Skilled in building scalable systems and solving real-world problems using data-driven approaches. Passionate about AI and systems design, with a focus on continuous learning.

Education

MPSTME, NMIMS University **2022-2026**
B. Tech in Computer Engineering
CGPA: 3.96/4
R.N. Podar School **2022**
HSC CBSE: 97%
Sri Aurobindo Memorial School **2020**
SSC CBSE: 90.2%

Projects

Neural Machine Translation of Spanish to English using Attention and Seq2Seq Architecture– July 2025
Designed and implemented a Spanish-to-English Neural Machine Translation (NMT) system using PyTorch with a Transformer-inspired sequence-to-sequence (Seq2Seq) model. Developed custom bidirectional encoder and attention-enabled decoder modules, incorporating multi-layer GRUs and context-aware attention mechanisms. Used BLEU score evaluation and mixed precision training for optimization.
Face detection using Deep Learning – May 2025
Built a deep learning system for face detection, implementing core concepts including CNN architecture design, custom data generators, loss functions, and training loops. Utilized WIDER FACE dataset.
Football video analysis system – March 2025
Developed a real-time tracking system that detects the player movements, speed, ball possession, and other statistics using Computer Vision, Machine Learning and integrated with a Django web interface.
Modern E-Commerce Website with React, Sanity, and Stripe- May 2025
Built a responsive e-commerce application using React with Sanity CMS for dynamic content management and integrated Stripe for secure real-time payment processing. Deployed on Vercel.
Dynamic Chat Room Application using MERN Stack – April 2024
Developed a full-stack chat application with user authentication using JWT Tokens. Utilized Mongo DB for storing user and message data, with Express and Node JS services for backend. Deployed as a dynamic site on Render.
Lung and brain tumour classification – November 2024
Created a Machine Learning based system to detect and classify tumours in lungs and brain if any using VGG16 model, Custom CNN models and Flask interface.

Certifications

- **Pursuing Honours from Coursera - 2022-2026**
  - **Deep Learning Specialization – Deeplearning.ai**
  - **Google Data Analytics – Google**
- **Quantum Machine Learning – IIT-Madras – 2025**

Core Skills

Technical Skills – C++, Java, Python, HTML, CSS, JavaScript, MySQL, ReactJS, Node, Version Control, Flask, Computer Vision, Mongo DB, Neural Networks, machine Learning, Computer Networks, Data Structures and Algorithms.

Soft Skills – Leadership capability, team coordination, decision making, active listening, strategic planning, time management, goal setting.