



Neel Patel

Roll No.: 21BCP271

B.Tech.

Computer Science and Engineering

PANDIT DEENDAYAL ENERGY UNIVERSITY

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EDUCATION

Pandit Deendayal Energy University, Gujarat	2025
B. Tech in Computer Science and Engineering	CGPA: 9.2
Parth Institute, Gujarat	2021
Gujarat Secondary and Higher Secondary Education Board	Percentage: 74.9%
MGM School, Gujarat	2019
Gujarat Secondary and Higher Secondary Education Board	Percentage: 84.6%

EXPERIENCE/INTERNSHIP

- Data Analyst Intern** May'24-July'24
Venus Engineering Works, Ahmedabad, Gujarat
 - Developed a real-time dashboard that provided actionable insights, significantly enhancing decision-making speed and overall department efficiency.
 - Played a key role in ERP development using Python, SQL, and Excel, which streamlined data management and substantially improved operational efficiency.
 - Spearheaded cross-departmental collaboration to deliver tailored data solutions, reducing project completion times and improving stakeholder satisfaction.
- Machine Learning and Artificial Intelligence intern** May'24-June'24
Nexus info, Tamil Nadu, India
 - Created a Python-based interactive chatbot with tkinter, featuring API integrations for weather, news, and translation services.
 - Incorporated additional functionalities such as joke generation, date retrieval, and mathematical operations.
 - Developed a context-aware admission Q&A chatbot using Flask, implementing memory management for personalized user interactions.

ACADEMIC PROJECTS

- HSRPR | High Security Registered Plated Recognition** Nov'23
 - Python, Web Scraping, YoloV3, CNN
 - Combined Dataset of Kaggle and Web scraped from OLX
 - Number plate detection using YOLOv3, and Convolutional Neural Networks (CNN) model for recognition to achieve this objective
- Real-Time Affect Recognition System** March'24
 - Engineered a Convolutional Neural Network for multi-class emotion detection, leveraging a substantial dataset of facial expressions.
 - Augmented the system with real-time analysis capabilities, enabling live emotion recognition through webcam input.
 - Showcased the project's practical applications by deploying an interactive demo on Gradio, facilitating user engagement and real-world testing.
- Image-to-Audio Generation System** November'23
 - Utilized an image-to-text transformer model to generate text from image context.
 - Integrated an OpenAI LLM model (gpt-3.5-turbo) to convert the generated text into a short story
 - Implemented a text-to-speech model for real-time audio narration of the story.

TECHNICAL SKILLS AND INTERESTS

Programming Languages : C, C++, Python, HTML, CSS, MATLAB

Developer Tools : Docker, Github, Visual Studio Code

Frameworks : Numpy, Pandas, Matplotlib, Seaborn, Tensorflow, Keras, sklearn

Cloud/Databases: AWS, SQL

Soft Skills: Teamwork and work ethics, Project management

Computer Fundamentals : Data Structures and Algorithms, OOPs, Operating System, Computer Networks, Compiler Design

Areas of Interest: Deep Learning, Generative-AI