

# Trupt Patel

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## EDUCATION

Pandit Deendayal Energy University, Gujarat

B.Tech in Information and Communication Technology

2021-2025

CGPA: 8.92\*

## PROJECTS

**Cloud Infrastructure Automation with React Application** (Jenkins, Docker, Python, Terraform, Flask, GenAI, Git, AWS, React) ([Link](#))

- Created **Docker environment**, to run flask application, utilizing docker commands and GenAI to automate Dockerfile creation and container management.
- Automated the deployment of several AWS resources like EC2, S3 Buckets, Lambda Function and VPCs using **Terraform** Scripts, reducing manual setup time by 70%
- Set up **Jenkins Pipeline** to trigger Terraform scripts based on user inputs from web interface, providing seamless CI/CD experience, decreasing deployment time by 50% and reducing error by 40%.

**Go Food MERN Application** (MongoDB, Express, ReactJS, NodeJS, Bootstrap, Nodemailer) ([Link](#))

- User Authentication: Implemented secure user authentication and authorization using JWT for login and session management.
- Frontend Development: Designed an intuitive interface with React, allowing users to browse menu items, add items to the cart, and place orders
- Secure Password Handling: Enhanced security by hashing passwords with **bcrypt** for data stored in MongoDB.
- RESTful API Creation: Developed robust APIs for user registration, login, order placement, and order history retrieval. Achieved average response time of 200ms for API requests. Add mail signup functionality using Nodemailer.

**Video-Audio Processing** (Python, MoviePy, SpeechRecognition, OpenCV, Flask, Google cloud APIs) ([Link](#))

- Designed script that can do various tasks with video like **video-audio** conversion, **audio-text**, text to srt or captions, video **translator** and **video subtitle generator**.
- Utilized **Ffmpeg** for efficient extraction of audio from video file, processing up to 100 videos per hour with conversion accuracy of 95%. Used Google Cloud Speech-to-Text API, achieving transcription accuracy of 85% for noisy audio.
- Established a module to add subtitles to video by burning SRT file, syncing subtitles with 98% accuracy.

## TECHNICAL SKILLS

- Tech:** C++, C, JavaScript, Python, SQL, HTML, CSS, React, Node.js, Bootstrap, REST API, MongoDB, SQL, AWS, Flask
- Developer Tools:** Git, Visual Studio, PyCharm, Docker, Jenkins, Postman
- Operating System:** Linux, Windows, Mac, Android
- Areas of Interest:** Web Development, Software Development, Algorithms, Problem Solving.
- CS Fundamentals:** DSA, OOPS, CN, DBMS
- Soft Skills:** Problem Solving, Time Management, Teamwork, Leadership, Accountability, Communication

## INTERNSHIPS

Neurapses Technology Pvt. Ltd. – Software Engineer Intern

May 2024

- Developed **Drug Recommendation AI Chatbot** that suggest alternate drug and drug from diseases symptom.
- Collected and integrated over 10000 data from 20 different APIs.
- Utilized **Neo4j** to create a robust and scalable graph database for storing drug information, diseases, and symptoms.
- Designed and implemented user-friendly web application with **Streamlit** for seamless interaction with system.
- Developed **Taxonomy System** for textile industry. With functionality like add, review and search for product.
- Achieved 80% accuracy in Drug Recommendation System and 70% in Taxonomy System.

## ACHIEVEMENTS

**Finalist, Odoo Combat 2024 Hackathon**

Participated in the Odoo Combat 2024 hackathon, which saw participation from over 700 teams. Advanced to the final round, placing among the top 150 teams. Demonstrated innovative solutions and strong technical skills in a highly competitive environment.

**Problem Solving** ([Leetcode](#)) ([GFG](#))

Solved over 200+ problems on LeetCode and GFG, demonstrating proficiency in algorithms and data structures.

## CERTIFICATION

**NPTel Privacy and Security in Online Social Media** ([Link](#))

Oct 2023

**Chegg Python Programming** ([Link](#))

Jul 2024

**Soft Computing Research Society** Membership Certificate – Student Chapter at PDEU ([Link](#))

Jul 2023