

# Trupt Patel

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## EDUCATION

### Pandit Deendayal Energy University

Bachelor of Technology - Information and Communication Technology; CGPA: 8.90

Gujarat, India

Aug 2021 - May 2025

## PROJECTS

### Cloud Infrastructure Automation with React Application (Jenkins, Docker, Python, Terraform, Git, AWS, React, Node.js)

- Developed Docker environment: Implemented Docker for running a Flask application, using GenAI to **automate Dockerfile** creation and container management.
- Automated AWS deployments: Utilized **Terraform** to manage AWS resources (EC2, S3, Lambda, VPCs), cutting manual setup time by 70%.
- Optimized CI/CD with Jenkins: Configured **Jenkins Pipeline** to trigger Terraform scripts from a web interface, reducing deployment time by 50%.

### Easy Take MERN Applications (MongoDB, Express, ReactJS, NodeJS)

- Frontend Development: Developed a scalable **IT solutions platform**, including service catalogue, and client testimonials
- Backend Development: Created and maintained a **RESTful API** with Express.js and Node.js for managing service listings, client inquiries, and content updates. And **bcrypt** for end-to-end encryption.
- Implemented Role-Based Access Control (RBAC): Established **admin dashboard** for admin privileges to securely manage and access user data and contact information, with detailed logging for accountability.

### Video-Audio Processing (Python, OpenCV, Google cloud APIs)

- Comprehensive Script Development: Created a versatile script for **video-audio conversion, audio-to-text, text-to-SRT/captions, translation, and subtitle generation**.
- Efficient Audio Extraction: Implemented Ffmpeg to extract audio from videos, processing up to 100 videos per hour with 95% accuracy; utilized Google Cloud Speech-to-Text API for 85% accuracy in noisy environments.
- Accurate Subtitle Integration: Developed a module to burn **SRT subtitles** into videos, achieving 98% synchronization accuracy.

## TECHNICAL SKILLS

- Programming Languages:** C++, C, JavaScript, Python
- Web Technologies:** HTML, CSS, React, Node.js, Bootstrap, Express.js
- Developer Tools:** AWS, Docker, Jenkins, Terraform, GitHub, Virtual Box
- Databases & Frameworks:** MongoDB, MySQL, Flask, SQL, NoSQL
- Operating System:** Linux, Windows
- CS Fundamentals:** Data Structures and Algorithms, OOP, Computer Networks, DBMS, Operating System
- Soft Skills:** Teamwork, Leadership, Communication, Problem Solving

## EXPERIENCE

### Hyperlink Infosystem Pvt. Ltd. – Full stack Intern

Jan 2025

- Worked on real-time web applications, focusing on frontend (NEXTJS), backend (NODEJS), and MySQL database integration.
- Developed and optimized RESTful APIs, connected dynamic UIs, and implemented server-side logic.
- Collaborated on database schema design and ensured data integrity in production systems.
- Handled deployment processes, ensuring seamless integration and scaling of applications.

### Neurapses Technology Pvt. Ltd. – Software Engineer Intern

May 2024

- Developed Drug Recommendation AI Chatbot: Created a chatbot that suggests alternate drugs and treatments based on disease symptoms.
- Graph Database: Utilized **Neo4j** to design a scalable **graph database** for storing **drug information, diseases, and symptoms**.
- Taxonomy System: Developed a **taxonomy system** for the textile industry, enabling functionalities such as **adding, reviewing, and searching for products**, with **70% accuracy** in categorization.

## ACHIEVEMENTS

### Finalist, Odoob Combat 2024 Hackathon

Advanced to the final round of the **Odoob Combat 2024 hackathon**, competing among over **700 teams** and placing in the top **150**. Showcased **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 | Certificate**
- Chegg Python Programming | Certificate**

Oct 2023

Jul 2024