

Trupt Patel

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EDUCATION

B.E in Information and Communication Technology	Pandit Deendayal Energy University (8.94*/10.00)	August 2021 - May 2025
HSC	Karnavat School (85%)	March 2021

PROFESSIONAL EXPERIENCE

Neurapses Technology – Machine Learning Intern May 2024 – July 2024

Drug Recommendation System (Python, Neo4j, Streamlit, Flask, Scrapy, LLM, Ollama)

- Collected and integrated over 10000 data from 20 different APIs. Used Ollama for serving ML model.
- 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.
- Used Ngrok for Unified application delivery and learned how resources are managed and used within company.
- Achieved 88% accuracy in recommending appropriate medications based on diseases types and symptoms.

PROJECTS

Automated System for Cloud and Docker (Jenkins, Docker, Python, Terraform, Flask, GenAI, Git, AWS)

- 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%.
- Designed a user-friendly **Flask-based** Web application to allow users to select automation tasks and view result.

Video-Audio Processing (Python, Pydub, OpenCV, Flask, Tkinter, Google cloud APIs)

- 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.
- Developed a module to add subtitles to video by burning SRT file, syncing subtitles with 98% accuracy.

MERN Food Website (MongoDB, Express, ReactJS, NodeJS, Bootstrap, Bcrypt)

- Developed a full stack website for food delivery website with responsiveness that allow user to access website even on mobile devices.
- For enhanced security and end-to-end encryption of data **Bcrypt** and **JWT token** has been used, reducing unauthorized access attempt by 90%.
- Implemented RESTful APIs with **Node.js** and **Express.js**, integrating MongoDB to manage and store user data, orders and menu items. Achieved average response time of 200ms for API requests.

ACHIEVEMENTS AND CERTIFICATION

- A student and member of Soft Computing Research Society, a student chapter of PDEU.
- NPTEL certification in Privacy and Security in Online social media.
- Foundation of Data Science by Great Learning.
- Participated and certified in Flipkart Grid 5.0 challenge.
- AWS Certified Solution Architect- trained

TECHNICAL SKILLS

Languages:	C++, C, JavaScript, Python
Developer Tools:	Git, Visual Studio, PyCharm, Docker, Jenkins, Postman
Databases:	MySQL, MongoDB
Web:	React, Node, REST API, Express, HTML, CSS, Bootstrap, Flask
Operating System:	Linux (Ubuntu, Kali, Parrot OS), Windows, Mac, Android
Cloud:	AWS (EC2, ECS, S3, RDS, VPC, Load Balancing, Auto Scaling, API Gateway)
CS Fundamentals:	DSA, OOPS, DBMS, DAA, Information Security
Soft Skills:	Time Management, Teamwork, Problem Solving Skills, Adaptability, Flexibility