HARSHIL KOTHIYA

Surat, Gujarat

📞 +91-8469409852 ✉ harshilkothiya5@gmail.com 🔗 Linkedin ⭘ Github ⬡ LeetCode

EDUCATION

Chandubhai S. Patel Institue of Technology - CHARUSAT UNIVERSITY **2022 – Present**
*B.Tech - Information Technology - **CGPA - 9.36/10*** *Gujarat, India*

Shree Swaminarayan Gurukul, Surat (GSEB) **2020 – 2022**
*Higher Secondary Certificate (HSC)(PCM) - **Percentage: 85%*** *Gujarat, India*

Shree Swaminarayan Gurukul, Surat (GSEB) **2019 – 2020**
*Secondary School Certificate (SSC) - **Percentage: 87.66%*** *Gujarat, India*

EXPERIENCE

Intern at Clumoss ⎋ **May 2024 - June 2024**
Role - Web Developer *Surat, Gujarat*

- Gained hands-on experience as a Full Stack Developer, building and deploying MERN-based applications.
- Developed a Hotel Management Website and an E-commerce Platform with intuitive UI, seamless navigation, and secure transactions.
- Integrated **user authentication and secure login systems, storing user data in MongoDB.**
- Collaborated with team members to ensure smooth development, integration, and project delivery.

DoseHack'24 Hackathon Participant ⎋ **25-26 Sep 2024**
Automation warehouse bots *Charotar University, Gujarat*

- In DoseHack'24, where I developed autonomous warehouse bots to enhance operational efficiency and reduce human error.
- Showcased the potential of AI/ML in revolutionizing warehouse operations.

IMMunoQuest: Kaggle Competition ⎋ **15 feb 2024**
Participant - 8th Rank *Charotar University, Gujarat*

- Developing a deep learning-based classification model to accurately categorize white blood cells (WBCs) into five critical types.

PROJECTS

SAR Image Colorization ⎋ | CNN, ANN, GAN **January 2025**

- Developed a SAR Image Colorization model using GANs, **achieving 80% accuracy** in generating realistic colorized satellite images from grayscale inputs.
- **Trained the model on 16,000+ images, optimizing feature extraction and enhancing visual quality.**

Next Word Prediction ⎋ | LSTM, RNN, NLP **sept 2024**

- **Developed an LSTM-based** next-word prediction model, **achieving 81% accuracy.**
- **Optimized model training over 100 epochs**, converting sentences into sequences and using categorical cross-entropy loss with the Adam optimizer.

FarmSmart: Crop-Recommendation ⎋ | RF, XGBoost, SVC, Streamlit **November 2024**

- Developed a machine learning-based crop recommendation system, **achieving and enhancing performance to 97-99% using Random Forest and XGBoost.**
- Built a **Streamlit web interface** for real-time predictions based on Nitrogen, Phosphorus, Potassium, pH, and humidity.

TECHNICAL SKILLS

Languages: C/C++, Python, JavaScript, SQL(MySQL 8.0)
ML Libraries: Flask, NumPy, Pandas, Matplotlib, Scikit-Learn, TensorFlow, PyTorch, NLTK, Streamlit
Developer Tools: VS Code, Git, GitHub, Power BI, Google Colab

CERTIFICATIONS

- Completed **NPTEL** certifications in **Data Structures and Algorithms Using Java with 80%** score, **Database Management System with 76%** score, **Operating System Fundamentals with 67%** score.
- **Generative AI** certifications by Microsoft and LinkedIn.