Dip Patel

Computer Science Undergraduate

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SKILLS

- C/C++
- Data Structures & Algorithms
- Oops
- Python
- Django
- PHP
- Java
- Streamlit Library
- HTML / CSS / Bootstrap
- Mysql
- Machine Learning basics
- Operating system
- Computer Networks
- Git
- NLP

EDUCATION

Computer Science (B.tech)

- Nirma University(2019-2023)
- PPI : **8.66/10**

H.S.C(12th)

- Ash secondary School(2018-2019)
- percentage : **91.00(Ranked amongst top 1%)**

CERTIFICATIONS

- Algorithmic-Toolbox by Coursera**(100%)**
- Certificate for Completion of Linux AWK Training
- Certificate for Completion of Java Programing Given Under Spoken Tutorial Project, IIT Bombay .
- Coding Ninjas excellence in DSA .
- Coding Ninjas excellence in C++ **(Top Performer)**

EVENTS & ACHIEVEMENTS

- Nirma University Scholarship -**90000 Rs**.
- Ranked **1335 /15000+** All India Jobathon - GeeksforGeeks
- 6th National Engineering Olympiad (NEO 6.0) **AIR-256 (Amongst Top 5 % Scorers).**
- Scored Under 1500/15000 Rank in August Long Challenge at Codeshef

PUBLIC/CODING PROFILES

LinkedIn Geeks for Geeks

Leetcode Hacker Rank

WORK EXPERIENCE(RESEARCH PROJECT)

Route Optimization in Smart waste Management System(SMART DUSTBIN)

2022- Ongoing

- Smart Dustbin is a Nirma University-funded project in cooperation with Ahmedabad Municipal Corporation that tries to solve the problem of efficient waste management using IoT and graph theory concepts.
- Technologies Used : **Python , MapQuest API , Machine learning , Artificial intelligence.**
- Project uses **Genetic Algorithm** and **K-Means Clustering** for route optimization.
- Results of study highlights that 47 major points of Ahmedabad city can be covered in less than **96 minutes** by traveling **129 km** using just **9 trucks.**
- Defeated IEEE conference paper (Optimal Routing for Solid Waste Collection in Cities by using Real Genetic Algorithm) by **95m** where previous results showcase **6585m** to cover all points which is reduced to **6490m** .
- Github

PROJECTS

Online - Judge |Online Coding Platform | (Django-Based website)

2022-Ongoing

- Built an online judge that remote runs code securely and judges if the given code is correct/wrong/inefficient with **User Authentication.**
- Implemented using **Python** and **Django** libraries to handle features and provided access to user to keep track of there progress by maintaining leader board and history submission.
- **HTML ,CSS, Bootstrap** is used for Fronted of Online - Judge.
- Using python for implementation by exploring **DOCKER** techniques to create secured environment to run the code.
- Ongoing work : Docker , Nginx , Gunicorn
- Future Scope : A single server can handle up to **2000** user contest with **Horizontal scaling ,**
- Github

Online Medical Shop

2021-2022

- Built an Online Medical shop using **Lamp Stack** that successfully provide all basic functionalities like Displaying products, Cart Management and bill generation with Order history and **User Authentication** .
- User Authentication using **PHP** and **MYSQL** database where User can login , sign up, logout, update the profile details.
- Technologies Used : **HTML , CSS , PHP , MYSQL**
- Future Scope : Payment Gateway
- Github

Whatsapp chat Analyzer / Summarizer

November,2022

- Built a What's app chat analyzer which gives us the analysis of each user as the number of words spoken , timeline of the chat contributions , emojis used percentage wise user contribution , in terms of pie chart , heat map , bar plots and much more.
- It also provides the concise summary of group discussions as well as user specific discussions based on users requirements(In how much words user want to summarize)
- Technologies Used : **Python , Streamlit Library, NLP, Machine Learning , Deep learning based pretrained models , Numpy , Pandas**
- **Deployment Link (Streamlit cloud) :** click here
- Github