Dilesh Chouhan

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Education

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| **Indian Institute Of Information And Technology, Vadodara (IIIT VADODARA)** | | | Graduation date: Jun. 2024 |
| B.Tech in Computer Science and Technology | |  | CPI: 6.58 |
| Relevant Courses : Data Structure and Algorithm,Object-Oriented Programming,Database Management, | | | |
|  | Operating System, Computer Networks,Software Engineering. | |  |
| Experience | |  |  |
| [**IIIT VADODARA**](https://colab.research.google.com/drive/1kcBHGJL8lDOx-qsXKcpL3uCs16Z4Iczk##scrollTo=pz47sHACkBJf) |  |  | Feb. 2024 - july 2024 |
| ***Product analyzer Agent (Research Internship)*** | | *Python, Langchain, chromaDB, selenium,playwright,embedding* | |

* Built product analysis pipeline using Selenium, LangChain, Playwright, and Google Gemini Pro, improving data extrac-tion efficiency by 30%.
* Summarized 10,000+ product reviews using LLMs, performing sentiment analysis and extracting pros and cons.
* Developed an interactive RAG chatbot with LangChain, achieving 95% accuracy in handling user queries.
* Integrated Google APIs to address out-of-scope queries, enhancing user engagement by 40%.

Projects

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| [**X-ify**](https://github.com/Nikky000/XraySem5) |  | Jul. 2023 - Sept. 2023 |
| ***GAN-based Image Classifier*** | | *Python, Django, JavaScript, HTML, Flask, Bootstrap, Git, REST API* |

* **This project was featured in ACSS’23**
* Researched and explored **8** types of image processing models, including CNNs, VGGNets, ResNets, DenseNets, GANs, DCGANs, WGANs, and WGAN-GP.
* Made a highly accurate image classification system using **PyTorch**, specifically **DenseNets** and **WGAN** for data aug-mentation, with over **100,000** unique images (only **3145** real, Kaggle Xray Dataset).
* Used Transfer learning to train DenseNets.
* System includes login/logout, email authentication, and X-ray report generation in PDF format. CRUD features for reports use **SQLite**.

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| [**APIverse**](https://github.com/Nikky000/DRF_CRUD) |  | Oct. 2024 |
| ***Full Stack CRUD Website*** | | *Python, React, Django-REST-Framework, Swagger* |

* Developed a scalable CRUD web application using **React** for the frontend and **DRF** for the backend.
* Designed class-based APIs and implemented a custom **User model** with **validation** for advanced user management.
* Added password update and reset functionality via email for enhanced user experience.
* Utilized **SQLite** as the database, integrated **Swagger** for API documentation, and performed unit and integration testing to ensure reliability.

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| [**PRISM**](https://github.com/Nikky000/PRISM.git) |  | Oct. 2024 |
| ***AI-Powered PR Review System*** | | *Python, Django, FastAPI, Celery, Redis, LLM, GitHub API* |

* Designed a microservices-based architecture using **Django**, **FastAPI**, **Celery**, and **Redis** to automate **GitHub Pull Request reviews** with **LLM integration**.
* Implemented asynchronous task management for scalable processing of multiple **PR file modifications**.
* Built a high-performance, modular API backend for scalable and efficient **code analysis workflows**.
* Leveraged **LLM agents** for intelligent insights and automated **code reviews**, boosting efficiency and accuracy.

Achievements: -

* X-ify research project is featured in ACSS’2023.
* Solved 900+ problems including Leetcode, GeeksForGeeks, CodeChef and Maintained 560+ days LeetCode streak.

Skills

**Languages:**

Python, Java, C++, C, SQL, JavaScript etc.

**Technologies & Tools:**

Flask, Django, Djangorestframework, FastApi, MongoDB, Celery, Redis, Git, Linux, React.js, Express.js, Docker, Node.js, Tailwind CSS, Material UI, Kafka, Aws