KALPAK KULKARNI

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EDUCATION

**Vidyalankar Institute Of Technology (2022-2026) CGPA: 9.2 Mumbai,India**  *Bachelor's in Information Technology Aug 2022 – May 2026*

### Higher Secondary School Certificate Palghar,India

*Maharashtra State Board of Higher Secondary Education (2020-2022) Aug 2020 – May 2022*

*Percentage:89.00%*

### Secondary School Certificate Palghar,India

*Central Board Of Secondary Education (2020 Batch)*

# PROJECTS

**Data Download Duplication Alert System |** *HTML CSS JavaScript Flask MySQL phpMyAdmin*

 Developed a **Data Download Duplication Alert System (DDAS)** to prevent redundant downloads and optimize resource usage.

 Implemented **content-based file validation** using hashing algorithms (MD5/SHA256) and a scalable **cloud-based backend**.

 Deployed on **AWS**, utilizing S3 and DynamoDB for storage and database management.

 Ensured secure **user authentication** and real-time alerts to streamline multi-user data handling.

## Wildlife Detector | *Python YOLO v8 Streamlit*

## 

* **Developed** a **Wildlife Detection System** using **YOLO v8** for real-time animal identification in video feeds.
* **Integrated** an **API** for automated alerts, improving response times for wildlife organizations.
* **Built** a **Streamlit** frontend for easy interaction and visual monitoring.

## Optimized detection accuracy with custom datasets, ensuring precision in varied environments.

## Internify | *HTML CSS JavaScript Flask MySQL AWS GitHub*

* **Developed an internship-focused web platform**, enabling seamless search and application for internships tailored to students' needs.
* **Implemented user-friendly features**, including real-time filtering, application tracking, and personalized recommendations, enhancing the user experience.
* **Integrated backend systems using Flask** ensuring secure data handling, authentication, and efficient database management.
* **Collaborated with a team to deliver scalable solutions**, optimizing platform performance and achieving high user engagement metrics.

**Transport Management System (TMS) |** *HTML CSS JavaScript Flask MySQL phpMyAdmin*

* Built a web app using **Python Flask** and **MySQL** for managing car and driver bookings.
* Designed **date-based booking validation** and conflict resolution logic.
* Optimized database queries for efficient operations and scalability.
* Implemented modular design for maintainability and user-friendly error handling.

TECHNICAL SKILLS

**Problem Solving:** DSA, OOP, DBMS

**Languages:** C++, SQL (MySQL), JavaScript , HTML , CSS , Python

**Frameworks**: React.js , Express.js

**Developer Tools**: Git , VS code , Pycharm

**Libraries**: Pandas , Numpy , MatPlotLib , Seaborn

# Online Platforms And Referencs:

# GFG: [*https://www.geeksforgeeks.org/user/kulkarniko6yz/*](https://www.geeksforgeeks.org/user/kulkarniko6yz/)

# Leetcode: [*https://leetcode.com/u/kulkarnikalpak15/*](https://leetcode.com/u/kulkarnikalpak15/)

# Hobbies and Interests:

* Playing cricket
* Hiking