

KALPAK KULKARNI

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EDUCATION

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| Vidyalankar Institute of Technology (2022-2026) CGPA: 9.6 <i>Bachelor of Technology (B.Tech) in Information Technology</i> | Mumbai, India <i>Aug 2022 – May 2026</i> |
| Higher Secondary School Certificate <i>Maharashtra State Board of Higher Secondary Education (2020-2022)</i> <i>Percentage: 89.00%</i> | Palghar, India <i>Aug 2020 – May 2022</i> |

PROJECTS

Data Download Duplicate Alert System | *(HTML, CSS, JavaScript, Flask, MySQL, GitHub)*

- 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**.
- Utilized **MySQL** for efficient storage and database management.
- Ensured secure **user authentication** and real-time alerts to streamline multi-user data handling.

Wildlife Detector | *(Python, YOLO v8, Streamlit, GitHub)*

- 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, 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 with **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.

Ride Buddy | *(HTML, CSS, JavaScript, React.js, MongoDB, JWT, GitHub)*

- Developed a **secure carpooling platform** with **JWT-based authentication**.
- Designed a **NoSQL** database to manage user profiles and ride bookings.
- Integrated **dynamic ride-matching algorithms** based on **location and timing**.
- Enabled **seamless payment processing** through **API integration**.

TECHNICAL SKILLS

Problem Solving: DSA, OOP, DBMS
Languages: C++ (Preferred), SQL (MySQL, PostgreSQL), JavaScript, HTML, CSS, Python
Frameworks: React.js, Express.js
Developer Tools: Git, VS Code, PyCharm
Libraries: Pandas, Scikit-learn, NumPy, Matplotlib, Seaborn

CERTIFICATIONS & ACHIEVEMENTS

<https://drive.google.com/drive/folders/16Xbqre9tEvK6sKs8zvPWiCPsmaTgpl7T?usp=drive> link

ONLINE PLATFORMS AND REFERENCES

GFG: <https://www.geeksforgeeks.org/user/kulkarniko6yz/>
Leetcode: <https://leetcode.com/u/kulkarnikalpak15/>