Parul® University
NAAC A++

KUSHWAHA ALOKKUMAR ASHOKPRASAD

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BRIEF SUMMARY

"Computer Science student at Parul University with a deep interest in Artificial Intelligence and Machine Learning. Passionate about solving real-world problems using intelligent systems. Proficient in Python, data structures, and algorithms, with hands-on experience in developing AI/ML models and building scalable, data-driven applications. Eager to contribute to innovative projects that leverage the power of machine learning and data science."
I am looking forward to my first work experience.

KEY EXPERTISE

PYTHON | CPP | ML | AI | DSA

EDUCATION

Parul University 2022 - 2026
B.Tech. - CSE - PIT | CGPA: **8.46** / **10**

Don Bosco High School, Vadodara 2022
12th | GSEB | Percentage: **65.53** / **100**

Yanshy High School, Vadodara 2020
10th | GSEB | Percentage: **78.50** / **100**

PROJECTS

Study Buddy – AI-Powered Learning Assistant 19 Jul, 2024 - 03 Mar, 2025
Mentor: Kusum Lata Dhiman | **Team Size:** 4

Key Skills: AIML | Deep Learning | Transformers | Flask

Team Lead & AI/ML Developer
Designed and led the development of an AI-based learning platform to simplify academic tasks for students and teachers. Customized the T5 transformer model to generate summaries, multiple-choice questions, and answers from educational content—both with and without context. Built a custom dataset to improve accuracy and avoid overfitting. Integrated the solution with a React frontend and Flask backend, enabling support for various file formats (PDF, Word, PPT, URLs). Also developed exclusive tools for teachers, including syllabus planning features.

SQUAT TRACKER 10 Jun, 2024 - 15 Oct, 2024

Key Skills: OpenCV | Python | NumPy | Mediapipe

Project Link: https://github.com/ak5588/Squat-Tracker

In this project, I created a real-time squat tracking system using computer vision and pose estimation. The tool monitors body movements during squats by identifying key joints and calculating angles to detect posture and repetition accuracy. It provides instant feedback to help users perform squats correctly and safely, reducing the risk of injury.

Key Learnings:
Implemented pose detection using MediaPipe/OpenPose.
Calculated joint angles to assess squat depth and form.
Built real-time feedback using Python and OpenCV.
Gained hands-on experience in applying AI in fitness applications.

ACHIEVEMENTS

- Pu Hack-verse Hackathon
- AI/ML Onsight Health Care Hackathon
- Vadodara Hackathon 5.0
- PU Code Hackathon

SEMINARS / TRAININGS / WORKSHOPS

IMPACT TRAINING (DSA IN PYTHON) **Institute Name:** Parul Institute of Technology, Vadodara 25 Nov, 2024 - 28 Jan, 2025

Key Skills: Python DSA

Successfully completed an intensive 3-month Impact Training Program focused on core programming and data structures.
Gained hands-on experience with Python, covering key programming concepts, object-oriented programming, and real-world applications.
Mastered essential Data Structures and Algorithms (DSA) topics through structured learning and problem-solving.
Solved over 170 DSA problems on LeetCode, applying theoretical knowledge to practical scenarios.
Developed strong analytical and problem-solving skills by working on real-life coding challenges and optimization problems.

CO-CURRICULAR ACTIVITIES

- As a leader in 3 Hackathon

PERSONAL INTERESTS / HOBBIES

- Solving Puzzels, Playing Cricket

IMs

- WhatsApp - 9265397041
- Other - https://www.linkedin.com/in/alokkushwaha5588

PERSONAL DETAILS

Gender: Male
Date of Birth: 01 Apr, 2003
Current Address: Vadodara, Gujarat, Vadodara, Gujarat, India - 390014
Known Languages: Hindi,English, Gujarati
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