DIGPAL JAGTAP

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SUMMARY

Self-organized and detail-oriented fresh graduate with a B.E. in Mechanical Engineering, selfmotivated, quick learner, enthusiastic and solution-oriented. With these professional qualities soon I will become a valuable asset in your esteemed organization and contribute towards the success of the organization.

EDUCATION

Mechanical Engineering **Aug 2019 - April 2023**

Savitribai Phule Pune University

- C.G.P.A . :-7.25
- PES's Modern College of Engineering , Pune

PG-Diploma Unmanned Aircraft System Programming **March 2023 - Aug 2024**

C-DAC

- Grade. :-A
- CDAC Acts , Pune

12th Science

Jawahar Navodaya Vidyalaya ,Pune **April 2018 - March 2019**

- Board - CBSE
- Percentage: 76.38

10th General

Jawahar Navodaya Vidyalaya ,Pune **April 2016 - March 2017**

- Board - CBSE
- Percentage: 85.00

ACADEMIC PROJECTS

Graduation Project **July 2022 - April 2023**

Title : To Design and Develop Advance Sanitary Pad Vending Machine

Description : Vending machine is nothing but mechanism which dispenses items of your need to you by insert currency or credit into the machine. we proposed the sanitary napkin dispensing machine which is personal hygiene product for a woman with online payment gateway. Sanitary Vending Machine is a Self-Service Vending Machine used for dispensing Sanitary Napkins against acceptance of Coins or Online Payment.

Mini Project **Nov 2021 - April 2022**

Title : Voice Control Car

Description : This project is about voice controlled car. Due to making this project speech recognizing fundamental and other importing issue is sending speech recognizing results to car via using wireless system. Speech recognizing also known as automatic speech recognizing (ASR), speech to text (STT).

PG-DUASP Project

Title : Drone Based Survey and Mapping for Bridge Construction Management and Structural Health Monitoring

Description : Drone-based survey and mapping for bridge construction management and structural health management involves using UAVs equipped with cameras and sensors to gather high-resolution imagery and data of bridge structures. This technology allows for efficient and safe inspections, creating detailed topographic maps and 3D models. Drones facilitate real-time monitoring of structural integrity, helping to identify issues such as cracks and corrosion while reducing costs and inspection time.The process is further enhanced by using RoboStudio software for LiDAR data processing and ArduPilot for precise drone calibration. For defect detection, computer vision techniques are employed, with models trained to identify defects such as cracks and spalling of wall plaster. The code for this is written in Python, utilizing the OpenCV library. Overall, this integration of advanced technologies enhances decision-making and supports proactive maintenance strategies for bridges.

ADDITIONAL INFORMATION

- **Technical Skills:** CAD-CAM, Solid work Software , UAV design and its Technologies, Python , Machine Learning , SQL , Excel .
- **Languages Known:** English, Hindi, Marathi
- **Certifications:** Centre for Development of Advanced Computing
- **Awards/Activities:** Received the "Project Appreciation" Award for outstanding contributions to project innovation by The Institution's Innovation Council (IIC) and the Entrepreneurship Development Cell (EDC)

PERSONAL INFORMATION

- **Hobbies :** Hiking, Swimming, Reading
- **Date of Birth** : 06/08/2001
- **Nationality** : Indian
- **Gender** : Male