

Swapnil Ravindra Patil

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EDUCATION

Vishwakarma Institute of Technology, Pune

BTech, Electronics and Telecommunication Engineering
C.G.P.A : 8.10

2021 – Present

Government Polytechnic, Nashik

Diploma
Percentage :- 93.69%

2018 - 2021

SKILLS

Core JAVA

C++/C

SQL

DBMS

DSA

Web Development

Computer Vision

Python Basics

Flutter

MySQL

Machine Learning

Deep Learning

PROJECTS

Heuristic Based Optimized Classifier for HAR (Human Action Recognition) [🔗](#)

- Developed a novel approach for identifying activities from Video with an accuracy rate of 90.98% Applied.
- Video preprocessing and feature extraction techniques to improve model performance.
- Evaluated models using classification techniques and achieved state-of-the-art accuracy.
- By using the CNN+LSTM (convLSTM) with Partial Swarm Optimization techniques.

Tech Stack: - Python, TensorFlow, PSO, CNN, LSTM.

Human Action Recognition using LSTM and LRCN [🔗](#)

- Developed a novel approach for identifying activities from Video with an accuracy rate of LSTM is 72.25 % and LRCN is 87.96 %.

Applied

Vision Based Satellite Imagery for Riparian and Forest Ecosystem Classification [🔗](#)

- This Project aims to Analyze Riparian and Forest Ecosystem change, Over a 10-year Period.
- Satellite Imagery Dataset consist of 10 Images from Year [2014 – 2023].
- By using Computer Vision Approach.
- Applied various preprocessing techniques convert the Images to HSV Images, Thresholding, Morphological Operation, Contours, Color-Based Segmentation.

Automatic Intrusive Detection System Using OpenCV [🔗](#)

- In this Project use Mobile phone for IP camera and OpenCV for Access and Detection
- Save the Vide when Person detected and send message on Mobile Phone.

Online Bank Management System App using JAVA [🔗](#)

- In this project we make operation in Bank like credit and debit amount, check balance.
- Develop GUI for this system.

Tech Stack: - JAVA, MySQL, Swing

Certificate App using JAVA

- In this project we make certificate like Aadhar card, pan card (Not official)
- Develop a GUI Based App using Swing.

Recharge Management System using Html, CSS and Python [🔗](#)

- In this project perform Basic operation like Add money, mobile Recharge etc.
- It is GUI Application.

Tech Stack: - HTML, CSS, Python.

Operating System - File Management System using Bash Script [🔗](#)

- In this project we perform operation on the File like Sorting of file, detailing of particular File etc.
- use ubuntu Operating System.

Tech Stack: - Basch Scripting, Ubuntu Operating System.

PUBLICATIONS

Heuristic Based Optimized Classifier for HAR (Human Action Recognition)

IEEE - 3rd International Conference on Innovation Computing, Intelligent Communication and Smart Electrical System (ICSSES-2023)

Human Action Recognition using LSTM and LRCN

IEEE-International Conference on Signal Processing and Computer Vision (SIPCOV-2023)

CERTIFICATES

JAVA Basics (HackerRank) [🔗](#)

SQL Basics (HackerRank) [🔗](#)

JAVASCRIPT Basics (HackerRank) [🔗](#)

ACHIVEMENTS

- Solved 200+ Problems on various platforms (LeetCode, Hackerank)
- Published two research papers in Scopus.