Harsh Upadhyay

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EDUCATION

B.E. IN COMPUTER SCIENCE AND ENGINEERING
Madhuben Bhanubhai Patel Institute of Technology, Anand
CVM University
October 2021 - June 2025
Current CGPA – 8.33/10

CLASS X
MKGM School
MARCH 2019
Percentage - 92.4%

CLASS XII
MKGM School
MARCH 2021
Percentage - 92%

TECHNICAL PROFICIENCEIS

Analytics and visualization tools - Python, Jupyter Notebooks, Anaconda
Programming Language - Python, C, Java
Python Libraries - Numpy, Pandas, Scikit-Learn, Django, Flask, Matplotlib, Tensorflow-keras
Database Management - MySQL

CERTIFICATIONS

Machine Learning Specialization
Offered by Stanford University
Python for Everybody Specialization
Offered by University of Michigan
PET (Preliminary English test)
Offered by Cambridge university
KEY (Key English test)
Offered by Cambridge university

DOMAIN KNOWLEDGE

- **Machine Learning:** Supervised-Unsupervised Learning, ANN, CNN, DL
- **Data Science:** Data Science Life Cycle, Descriptive, Predictive and Prescriptive Analytics, Sampling, Linear-Logistic Regression, Time Series Analysis
- **Data Visualization:** Dashboard Design, Elements of Visualization, Meeting the needs of the audience
- **Image processing:** image processing algorithms like canny edges, woeffle filter etc.

INTERNSHIPS

VRUNDAVAN SOLUTIONS *(MAY 2024-JUNE 2024)*
Web development Intern

PROJECTS

CCTV ANALYSIS *(JUNE 2023-OCT 2023)*
PYTHON | YOLOV8 | FLASK | COMPUTER VISION | ML
Developed a CCTV analysis system with YOLOv8 for real-time object detection called "**JATAYU**". Specialized in *Crash detection, Fall detection, and Number Plate Recognition*. Integrated custom algorithms for emergency alerts. **(Link)**

REFRESHABLE BRAILLE DISPLAY *(AUG 2022-JAN 2023)*
PYTHON | FLASK | COMPUTER VISION | ML | IOT | NLP
Developed "**VIZION**" , a pioneering refreshable Braille display merging hardware with Python backend . Utilized *data science techniques such as OCR* for accurate text printing. **(Link)**

SMART PROSTHETIC HAND *(JAN 2024-MARCH 2024)*
IOT | ARDUINO | NEURO-SCIENCE | 3D PRINTING
Created **"EXOS,"** a *3D-printed* prosthetic hand with *EMG sensors* and Arduino coding. Employed advanced filtering for precise sensor readings, achieving lifelike movement with minimal delay. **(Link)**

NLP based AI Quiz generator
Chapter to quiz generator using spacy and Bert models.

POSITIONS AND RESPONSIBILITY

Membership Development Chairperson, IEEE STUDENT Branch *(OCT 2022-OCT 2024)*
Spearheaded ADHISTHAN'22 - the Annual Flagship event of IEEE MBIT SB with over 300+ participants and 5 speakers from all over the world
Documentation Head, Ecell Student Branch MBIT *(OCT 2022-DEC 2023)*
Organized E-Summit - the Annual Flagship event of Ecell with over 30+ teams pitching for their product and 3 Industrial experts as judge.

ACHIVEMENTS

1) ***WINNERS*** in CVMU Hackathon 1.0 2023 organized by Student Startups & Innovation Policy (SSIP) Gujarat.
2) Received ₹20,000 **SSIP Cell funding for "VIZION"** project, validating innovation in refreshable Braille display technology.
3) **Special recognition award Maker Fest Baroda 2023 for vision (refreshable braille display)**
4) **Winner dewang mehta IT Awards 2024 provided by DMFT and NASSCOM**