TURKAR DHAWAL HOMENDRAKUMAR

B.Tech. - Computer Science and Engineering

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BRIEF SUMMARY

I am a Computer Science student and AIML enthusiast with an open elective in AI & Machine Learning. I have worked on various projects in these domains and am proficient in C++ and Python languages. Additionally, I have knowledge of frontend web development, including frameworks like React.js, as well as HTML, CSS, and JavaScript languages.

KEY EXPERTISE

HTML   CSS   Javascript   React.js   SQL   OOPs   Machine Learning   Deep Learning   Computer Vision   Flask
Python   C++

EDUCATION

MIT Academy of Engineering, Pune   2021 - 2025
B.Tech. - Computer Science and Engineering | CGPA: **8.58 / 10**

Jankidevi chouragad Jr. College of science, Gondia, Gondia   2020
12th | MSBSHSE | Percentage: **86.96 / 100**

Jankidevi Chouragade High School, Gondia   2018
10th | MSBSHSE | Percentage: **91.80 / 100**

INTERNSHIPS

Hackveda Limited | Technology   01 Jul, 2024 - 15 Sep, 2024
Python Developer

Key Skills: Flask   Python   Machine Learning   Deep Learning   Data Visualization

-Developed and submitted project source codes and tasks according to requirement specifications.
-Conducted and prepared detailed test reports and presentations.
-Deployed projects on GitHub and other recommended platforms for live demos.
-Authored comprehensive software documentation for project.

PROJECTS

Encoder-Decoder Model for Visual Question Answering: A Deep Learning Approach   05 Aug, 2024 - 23 Nov, 2024
Mentor: Prof. Sharmila Kharat | **Team Size:** 3

Key Skills: Deep Learning   Encoder-Decoder   Flask   Natural Language Processing   Image Processing

Project Link: https://github.com/aka-obito/VQAModel

-Visual Question Answering (VQA) combines computer vision and natural language processing to answer image-based questions.
-Using a ResNet-LSTM model with attention mechanisms, it integrates visual and textual features while capturing complex patterns.
-Evaluations on a VQA dataset demonstrate improved accuracy and context-aware responses through this hybrid approach.

Web-app Development for Specially-abled(deaf and dumb) people   31 Jul, 2023 - 01 Jun, 2024
Mentor: Mrs. Aarti Deshpande | **Team Size:** 4

Key Skills: Python   Image Processing   Computer Vision   Deep Learning   Flask

Project Link: https://github.com/aka-obito/MajorProject.git

- Developed a machine learning model for sign language recognition, targeting the deaf and mute community.
- Designed a specialized website for effective communication, integrating real-time sign language interpretation.
- Committed to leveraging technology for social good, promoting accessibility and inclusion for individuals with diverse abilities.

Online Personalized Learning Tutorial tool   12 Sep, 2023 - 10 Nov, 2023
Mentor: Krunal Pawar | **Team Size:** 4

Key Skills: React.Js   Node.Js   API Development

Project Link: https://github.com/aka-obito/Online-personalized-learning

-Technologies: Used React.js, Node.js, and APIs for web development.
-Objective: Built a website to connect tutors and learners.
-Functionality: Allowed tutors to upload videos, giving learners access to educational content.

PUBLICATIONS / RESEARCH / WHITE PAPERS

Age-adaptive lung cancer prediction using ensemble learning methods
22 Nov, 2024

Conference Paper | IEEE International Conference on Integrated Intelligence and Communication Systems (ICIICS-2024) |

Mentor: Dr. Sunita Brave | **No. of Authors:** 3

Key Skills: Machine Learning | Ensemble Learning Methods | Predictive Modeling

-Lung Cancer Impact: Lung cancer is a leading cause of deaths, with smoking causing 90% of cases.
-Study Focus: The research compares ML and EL models for lung cancer prediction by age group.
-Data Processing: Preprocessing includes encoding, feature selection, and standard scaling.
-Models Used: ML models (e.g., KNN, NB) and EL models (e.g., RF, LGBM) were evaluated.
-Key Findings: RF showed the highest accuracy for both middle-aged (92.78%) and elderly (96.98%) groups.
-Conclusion: Ensemble learning methods, especially Random Forest, excel in lung cancer prediction.

ACHIEVEMENTS

- 1st Prize Winner in Project to Product Competition Organized by E-cell MITAOE

ASSESSMENTS / CERTIFICATIONS

Google AIML Virtual Internship

Virtual Internship Program in Cloud Security

Oracle Certified Foundations Associate
04 Sep, 2025

Certificate of Achievement - IR4.0 Foundation

POSITIONS OF RESPONSIBILITY

Administrator at ForeignLanguageClub MITAOE

As the Administrator at ForeignLanguageClub MITAOE, I am responsible for managing the club's finances, including overseeing the treasury and handling monetary transactions. I also coordinate and organize club activities, ensuring smooth operations and successful events.

CO-CURRICULAR ACTIVITIES

- 1st Prize in the College Fest Vollyball Game,

PERSONAL INTERESTS / HOBBIES

- Hiking/Trekking
- Photography
- Working On Projects

PERSONAL DETAILS

Gender: Male
Marital Status: Single
Current Address: 301, A wing, Disha horizon, dehu Alandi road, dehu phata, Alandi, 412105, 301, A wing, Disha horizon, dehu Alandi road, dehu phata, Alandi, 412105, Pune City, Maharashtra, India - 412105
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Date of Birth: 06 Dec, 2002
Known Languages: Hindi, Marathi, English
Permanent Address: Maa Sharda Chowk, Sai colony, Kudwa, Gondia-441614., Maa Sharda Chowk, Sai colony, Kudwa, Gondia-441614., Gondia, Maharashtra, India - 441614
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