

Radhika Amar Desai

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OBJECTIVE

As an ambitious student with focus on Computer vision, Deep learning, and Machine learning I am seeking opportunities to bridge robotics and computer vision. My objective is to utilize my strong academic background in computer science towards development of innovative solutions in the field of scene restructuration, image analysis and autonomous navigation. I am eager to collaborate with like-minded professionals to bring cutting edge technologies to solve real world problems and commit myself to continuous learning and growth in the field of AI.

EDUCATION

Bachelors of Technology in Computer Science Engineering, [Sep '22 - May '26]

School of Computer Science at Vellore Institute of Technology Chennai Campus, Expected Graduation in May 2026

CGPA: 9.34/10 | 3.736/4

RESEARCH PROJECTS

Automatic PCOS Detection System using ultrasound images of ovaries

[Jun '23 - Present]

- Detects PCOS based on presence of follicles in ultrasound images of ovaries using computer vision and machine learning with 99 % accuracy.
- Provides geometric information on follicles present in the ovary.
- Introduces a novel "Salt Segmentation" technique for binarization of the ultrasound images which are characterized by low contrast and prominent noise.

Link to the paper :

https://docs.google.com/document/d/1Ktj4RPHEFC0uDy_obg5LpBPKFnNUsRYp10MSsLH-Zaw/edit?usp=sharing

GitHub link :

https://github.com/Radhika-Amar-Desai/Automatic_PCOS_Detection_Using_Ultrasound_images.git

SKILLS

- Languages and Framework : C, C++, Python, ROS, OpenCV, Arduino, TensorFlow, Pytorch, Pandas, Numpy
- Other Skills :
 1. Basics of Web scraping
 2. Basics of Machine Learning, Deep learning and Computer vision
 3. Background knowledge in XAI and GenAI

CERTIFICATIONS

- One Week of Data Science in Python -by Udemy
Learned basics of data science like EDA and applications of machine learning and deep learning in data science.

- Participation Certificate for Women Engineers (WE) Bootcamp 2023
Learned about writing professional code and modern programming languages like Haskell.

PROJECTS

- Title : Game Page
Description : Is a visually appealing homepage for a gaming company
Tech Stack : CSS, HTML
Link : <https://github.com/RADHIKA508/INTERNSHIP.git>
- Title : 404 Error Page
Description : Is a visually appealing 404 error page
Tech Stack : CSS, HTML
Link : <https://github.com/Radhika-Amar-Desai/404-Error.git>
- Title : Machine Learning Algorithms
Description : Contains basic machine learning algorithms like SVM, decision tree etc.
Tech Stack : Scikit Learn, Python
Link : <https://github.com/Radhika-Amar-Desai/Machine-Learning.git>

ACHIEVEMENTS

- One of 200 candidates to be selected for Google WE program with over 22000 applications
- Cleared first round of HackAI in IIT Bombay TechFest
- Got provisionally admitted in Bachelors in Science in University of British Columbia with \$10000 Scholarship
- Got provisionally admitted in Bachelors in General Engineering in Texas A&M

COMMUNITIES

Communities

Member of Google WE program

Member of web development department of Google Developers Student Club , VIT Chennai

Member of Dreadnaught Robotics

REFERRAL

WE Program Support Team : we.support@talentsprint.com

VIT Research Faculty : chanthini.baskar@vit.ac.in