

# Siddhi Brahmbhatt

University of Massachusetts Amherst

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in [siddhi-brahmbhatt](#)

## Education

- 2021–Present **Masters in Computer Science (Expected Graduation: May 2023).**  
University of Massachusetts Amherst (4.0/4.0 GPA upto 1st semester)  
Coursework: Machine Learning, Neural Networks, Game Programming
- 2017–2021 **Bachelor of Engineering in Information Technology.**  
G H Patel College of Engineering and Technology, Anand, Gujarat, India (9.73/10.00 CGPA)  
Final Year Project awarded financial assistance under Govt. of Gujarat's Student Startup and Innovation Policy

## Research Experience

- Jul–Nov 2020 **Research Intern, I3D Lab, IISc Bangalore.**  
Worked on design and real-time evaluation of appearance based eye gaze estimation

## Publications

- 1 **I2DNet - Design and real-time evaluation of an appearance-based gaze estimation system** [↗](#)  
L R D Murthy, **Brahmbhatt Siddhi**, Somnath Arjun, Pradipta Biswas, Journal of Eye Movement Research.14, 4 (Aug. 2021)
- 2 **Solar powered motion detector for security in defence sector** [↗](#)  
**Brahmbhatt Siddhi**, Champaneria Neel, Rana Harshit, Joshi Smita B, Journal of Environmental Research And Development.13, 1 (Sept. 2018)

## Online Course Certifications

- 1 Learn to Program: The Fundamentals from Coursera [↗](#)
- 2 Data Base Management Systems from NPTEL - Score:91%, Top 1% [↗](#)
- 3 Programming, Data Structures and Algorithms using Python from NPTEL - Score:88%, Top 2% [↗](#)
- 4 Mathematics for Machine Learning Specialization of 3 courses from Coursera [↗](#)
- 5 Neural Networks and Deep Learning from Coursera [↗](#)
- 6 Structuring Machine Learning Projects from Coursera [↗](#)
- 7 Improving Neural Networks: Hyperparameter tuning, Regularization and Optimization from Coursera [↗](#)

## Projects

- 1 **Road Crossing Assistant** [↗](#) A full-stack AI project that includes everything from data collection to training ML algorithms and deploying them with an aim to help blind people cross Indian roads. (Funded by Govt. of Gujarat under SSIP [↗](#))
- 2 **Learning From Data** [↗](#) This project repository includes Python implementations of concepts that I learnt from the online course "Learning From Data" by Professor Yaser Abu-Mostafa of Caltech.
- 3 **Toxic Comment Classification** [↗](#) This project repository includes the details of my project to develop a web application for toxic comment classification.
- 4 **Attendance System Using Face Recognition** [↗](#) This project repository includes the details of my project capable to detect the faces in realtime using Raspberry PI, take attendance of recognized student from the database, and upload it to cloud. (Team-work for Smart Gujarat Hackathon 2020)
- 5 **Cozmo-Snakes and Ladders** [↗](#) This project repository includes the details of my project to make Cozmo robot play the board game "Snakes and Ladders".

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## Leadership

- 2017–2019 **Member of institute's IEEE Student Branch.**  
Managed and coordinated events under IEEE GCET SB
- 2019–2020 **Core Committee Member of institute's Computer Society of India Student Branch.**  
Tech Lead and Documentation co-ordinator
- 2019–2020 **Co-ordinator of Departmental club - TechKnowTalk Club.**  
Co-ordinated many technical talks (by both students and industry personnel)

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## Technical Skills

Programming Languages	Comfortable with: Python, C/C++ Familiar with: Java, MATLAB, R
Machine Learning	Comfortable with OpenCV, ImageAI, Tensorflow, Pytorch
Development	HTML, CSS, JavaScript, Flask(framework)
AI inference	Nvidia Jetson Nano
Other	Unity, SQL, Git, $\text{\LaTeX}$ , AWS