

# ANUPAM TRIPATHI

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## EDUCATION

<b>Northwestern University   Evanston, Illinois</b>	2019 - present
Master of Science in Artificial Intelligence	
Relevant Coursework	Introduction to AI, Frameworks of AI, Machine Learning, Data Science Seminar
Upcoming Coursework	Winter (Advanced Computer Vision, Deep Learning Foundations from Scratch, Statistical Pattern in Recognition, Natural Language Processing),
<b>K.J.Somaiya College of Engineering   Mumbai</b>	2015 - 2019
Bachelor of technology in Computer Engineering, CGPA : 3.6/4	
Relevant Coursework	Machine Learning, Neural Networks, Data Analytics and Machine Learning, Data Warehousing and Mining, Advanced Database Management, Image Processing.
<b>Other Courses</b>	Machine Learning by Stanford University (Coursera), Deep learning specialization by deeplearning.ai, Oracle certified Core and Advance Java, C++

## EXPERIENCE

<b>Home Drone   Artificial Intelligence Internship</b>	Sept 2018 - Jan 2019   Mumbai, India
Programmed and designed drones to develop a marketable product for specific applications. Worked on making drones smarter and fully automated by adding object detection and path detection techniques.	
<b>KJSCE   Machine Learning Internship</b>	Dec 2017 - Jan 2018   Mumbai, India
Worked on Human emotion detection and classification into the seven basic emotions. Used Haar cascades and Deep Neural Network for facial expressions and recurrent neural network for speech.	
<b>kWatt Solutions, IIT Bombay   Web Development Internship</b>	Nov 2017 - Jan 2018   Mumbai, India
Maintained and managed official websites of the organization. Added new webpages and additional features like webinars and live chat. Made the website secure and also easy to use and handle for visitors as well as company employees.	

## PUBLICATIONS

<b>Vision: A Deep Learning Approach to provide walking assistance to the visually impaired</b>
Nikhil Thakurdesai, Anupam Tripathi, Dheeraj Butani, Smita Sankhe. arXiv:1911.08739, November 2019.
<b>Implementation and Comparison of Facial Expression Detection and Classification Techniques</b>
Anupam Tripathi and Nikhil Thakurdesai. International Journal of Computer Applications 182(18):25-29, September 2018.
<b>Face Recognition using One-shot Learning</b>
Nikhil Thakurdesai, Nikita Raut and Anupam Tripathi. International Journal of Computer Applications 182(23):35-39, October 2018.

## SKILLS

<b>Languages</b>	Python, Java, R, C, C++
<b>Libraries</b>	PyTorch, Tensorflow, Keras, Tflearn, NLTK, Numpy, OpenCV, Pygame
<b>Databases</b>	MySQL, Oracle11g, Postgresql, Firebase
<b>Web Development</b>	PHP, JavaScript, Bootstrap, AJAX, Express JS, Angular
<b>Tools</b>	Tableau, Trifacta, D3.js, Databricks, Matlab

## PROJECTS

<b>Audio Assistance for Blind   Final Year Project</b>	July 2018 - May 2019
Object detection using YOLO algorithm and depth estimation using monocular Vision to provide walking assistance for blind in form of audio output	
<b>Snakes using Deep Reinforcement Learning</b>	June 2019
Training an AI agent to play the game of Snakes using Deep Reinforcement Learning	
<b>Facial Expression Detection</b>	Jan - Feb 2018
Classification of facial emotions using three techniques- CNN, Transfer Learning and Feature extraction using Haar Cascades.	
<b>Other Projects</b>	Face Recognition using One Shot Learning, Data Analytics on Chicago Police dataset by Invisible Institute, Poetry Generator using RNN, Sentiment analysis from voice using RNN, Family Locator- Android app for real time location sharing and past location tracking.

## ACTIVITIES

Winner - Hackathon organized by AWS at Northwestern university	Sept 2019
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