ANUPAM TRIPATHI

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EDUCATION

Northwestern University | Evanston, Illinois 2019 - present
Master of Science in Artificial Intelligence, CGPA : 4/4
Relevant Coursework Introduction to AI (A), Frameworks of AI (A), Machine Learning (A), Data Science Seminar (A), Advanced Computer Vision, Deep Learning Foundations from Scratch, Statistical Pattern Recognition, Statistical Language Modeling

Upcoming Coursework Industry Practicum in Intelligent Information Systems, Deep Reinforcement Learning from scratch

K.J.Somaiya College of Engineering | Mumbai 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.

Other Courses Machine Leaning by Stanford University (Coursera), Deep learning specialization by deeplearning.ai, Oracle certified Core and Advance Java, C++

EXPERIENCE

Home Drone | Artificial Intelligence Intern 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 recognition and path detection techniques.

KJSCE | Machine Learning Intern 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.

kWatt Solutions, IIT Bombay | Web Development Intern 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

Vision: A Deep Learning Approach to provide walking assistance to the visually impaired
Nikhil Thakurdesai, Anupam Tripathi, Dheeraj Butani, Smita Sankhe. arXiv:1911.08739, November 2019.

Implementation and Comparison of Facial Expression Detection and Classification Techniques
Anupam Tripathi and Nikhil Thakurdesai. International Journal of Computer Applications 182(18):25-29, September 2018.

Face Recognition using One-shot Learning
Nikhil Thakurdesai, Nikita Raut and Anupam Tripathi. International Journal of Computer Applications 182(23):35-39, October 2018.

SKILLS

Languages Python, Java, Matlab, C, C++
Libraries PyTorch, Tensorflow, Keras, Tflearn, NLTK, Numpy, OpenCV, Pygame
Databases MySQL, Oracle11g, Postgresql , Firebase
Tools Tableau, Trifacta, D3.js, Databricks

PROJECTS

Audio Assistance for Blind | B.tech Final Year Project 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

Image Inpainting | Course Project: Advanced Computer Vision Jan 2019 - Present
Predicting the missing parts of an image using a LSTM network. Using k nearest pixels to predict any pixel, hence making it independent of the shape of the missing part and using position blending to preserve intensities.

Other Projects Super resolution using second-order attention network (SAN), Face Recognition using One Shot Learning, Data Analytics on the Chicago Police Dataset, NLP tasks like fakes detection, question answering on Wikipedia movie data corpus, Facial Expression Detection, Snakes using Deep Reinforcement Learning, Poetry Generator using RNN, Sentiment analysis from voice using RNN,

ACTIVITIES

Winner - Hackathon organized by AWS at Northwestern university Sept 2019