Bhavya Shah

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EDUCATION

Institute of Technology, Nirma University **Ahmedabad, Gujarat, India**
B.Tech in Computer Engineering *Expected May 2021*

- **Cumulative GPA: 8.37/10**
- Relevant coursework: Algorithms, Data Structures, Machine Learning, Discrete Mathematics and Probability, Linear Algebra and Differential Calculus, Statistics and Probability

SKILLS AND INTERESTS

- Languages/technologies:
- C/C++ : Over 10000 lines
- Deep Learning API: Tensorflow, Keras : Over 10000 lines
- I love java espresso coffe

WORK EXPERIENCE

Intern at Infivolve Inc. *July 2019 - Present*

- Designing and implementing algorithms for achieving Object Tracking in real time along with prediction of object characteristics for various sports
- Accomplished tasks: Trajectory generation, Ball release speed and release angle calculation

Summer Research Intern at DAIICT, Gandhinagar *May 2019 - July 2019*

- Researched and implemented Facial Action Recognition using Hinton's Capsule Network in real time
- Achieved significant upscale in classification accuracy as compared to other existing architectures
- Under Dr.Suman Mitra, Dean of Academic Program at DAIICT Gandhinagar

Team Arrow, SAE Nirma Collegiate Club *Jul 2018 - Jun 2019*

- Developed a model for Object Detection and Classification using Convolutional Neural Networks, other unsupervised learning techniques and Image Processing
- Managing Interop server requests
- Team took part in AUVSI-SUAS competition 2019 at Maryland, USA

ACADEMIC PROJECTS

Medical Image Generation *July 2019 – Present*

- Investigating the task of medical image generation using Generative Adversarial Networks (GANs) for several domains like Retinal Fundi, skin lesions, brain segmentation, and CT-PET
- Under the guidance of Dr.Priyanka Sharma

Obstacle Avoidance for Unmanned Aerial Vehicles (UAVs) *January 2019 - March 2019*

- Developed an algorithm based on geometrical transformations to detect and avoid obstacles in real time
- Implemented and tested on UAVs through Mission Planner software

Facial Emotion Recognition *Jan 2019 – May 2019*

- Developed a real-time facial emotion recognition system on the FER2013 database using optimized convolutional neural network (CNN) model with minimum parameters and inspected the cases where CNNs failed
- Under the guidance of Dr.Ankit Thakkar and Prof.Preksha Pareek

Natural Language Processing based information extraction *March 2019*

- Developed a model to extract title, authors and abstract from research papers
- Under the company : raxter.io

Deep Learning Research Group, Nirma University *Jan 2019 – Present*

- Investigating several deep learning domains and research fields|| Under Dr.Priyank Thakkar, Associate Professor, CSE department, Nirma University

ACHIEVEMENTS

Idea Presentation Competition at SAC-ISRO, Ahmedabad *May 2019*

- Awarded first prize for presentation on Artificial Intelligence for Space Missions

ML-Run competition at Nirma University *March 2019*

- Runners up in Machine Learning Run at National level Techfest NuTech 2019

ONLINE COURSEWORK

- Machine Learning by Stanford University by Coursera
- Deep Learning Specialization by Coursera (All 5 Courses)
- Machine Learning by NPTEL IIT Madras
- Python Programming by NPTEL IIT Madras
- Linear Algebra by Gilbert Strang