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, Object Oriented Programming, Machine Learning, Operating Systems, Computer Organization, Discrete Mathematics and Probability, Linear Algebra and Differential Calculus, Statistics

SKILLS AND INTERESTS

- Languages/technologies: Proficient in Python, C++, Deep Learning framework - Tensorflow; familiar with Java, Javascript, SQL; Experienced with Git, LAMP stacks, Unix/Linux.
- Organizations: Hiramani old age home (Technical Volunteer), Kheda Municipal school (Youth mentor for underprivileged middle schooler).

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, court mapping

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
- Research is under review at IEEE ICIP 2020
- 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

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

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

HONORS AND AWARDS

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