**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 underprivi- leged 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