

Pulkit Gera

[darthgera123.github.io](https://github.com/darthgera123) | Github: [darthgera123](https://github.com/darthgera123)

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EDUCATION

IIIT HYDERABAD

B.TECH + MS BY RESEARCH IN CS
Expected Aug,2022 | Hyderabad,India
CGPA: 8.75 / 10.0

DAV PUBLIC SCHOOL

Grad. May 2017 | Gurgaon,India
Percentage: 96.4/100

COURSEWORK

RESEARCH

Statistical Methods in AI
(Teaching Assistant 2x)
Computer Graphics
Computer Vision
Mobile Robotics
Optimization Methods
Multivariate Analysis

COMPUTER SCIENCE

Data Structures
Operating Systems
Database Systems
Algorithms
Advanced Computer Networks
Unix Tools and Scripting

SKILLS

PROGRAMMING

Languages
Python • C++ • Shell • Javascript
GO • Matlab • SQL • Ruby on Rails
Libraries
Mitsuba 2 • COLMAP • PyTorch •
Tensorflow • OpenGL
Technologies
Github • Docker

ACHIEVEMENTS

AWARDS

- Secured first position in Megathon,2019 in Big Data Track
- Placed in top 25 contributors out of 700 people in Girlsript Summer of Code 2018
- Finished 3rd in Alcrowd Blitz,out of 350+ teams

POSITIONS

- Head Finance, E-Cell,IIIT Hyderabad(2019)
- Web Admin, E-Cell,IIIT Hyderabad(2018)

EXPERIENCE

SEGMIND SOLUTIONS | DEEP LEARNING INTERN

Aug 2020 - Oct 2020 | (Remote)Bangalore,India

- Ported object detection and semantic segmentation algorithms into Tensorflow
- Integrated them into a single framework for prototyping. Prototyping lines of code reduced to 5 lines.

AICROWD | TECHNICAL STAFF

October 2019 - June 2020 | (Remote)Geneva,Switzerland

- Designed over 200 questions to be used in various challenges.
- Made benchmarks and tested different research based challenges.

DREAMVU INC | COMPUTER VISION INTERN

June 2019 - July 2019 | Hyderabad,India

- Designed tools to benchmark images captured with various SOTA algorithms.
- Assisted in capturing data and improving image quality captured by the camera.

RESEARCH

CENTER FOR VISUAL INFORMATION TECHNOLOGY | RESEARCH

ASSISTANT, ADVISOR : DR P.J. NARAYANAN

May 2018 - Present | Hyderabad, India

Formulated a a neural rendering framework for simultaneous view synthesis and appearance editing of a scene from multi-view images captured under known environment illumination. Work resulted in an ICVGIP 2021 Publication.

INFORMATION RETRIEVAL AND EXTRACTION LAB |

INDEPENDENT STUDY, ADVISOR: DR VASUDEVA VERMA,DR BALAJI VASAN SRINIVASAN

July 2020 - June 2021 | Hyderabad,India

Worked on multimodal news summarization. Leveraged visio-linguistic transformers like OSCAR to encode visual and textual information and GPT as decoder to summarize the article.

UNIVERSITE DE LAVAL | RESEARCH INTERN, ADVISOR: DR JEAN

FRANCOIS LALONDE

May 2021 - Present | Hyderabad, India

Designed a pipeline to perform novel view synthesis of indoor scenes and generating high resolution panoramic images.

PUBLICATIONS

Practical view synthesis and appearance editing from unstructured images. Pulkit Gera, Aakash KT, Dhawal Srikonda, PJ Narayanan. Indian Conference on Computer Vision, Graphics and Image Processing 2021.

PROJECTS

MIP NeRF

Pytorch port of Multiscale Representation of Anti Aliasing Neural Radiance Fields. Generate high resolution inference images without aliasing artifacts.

INSTANCE SALIENCY DETECTION

Attention based multiscale instance salient detection using multiscale combinatorial grouping.