

Pranay Gupta

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EDUCATION

International Institute of Information Technology

MS by Research in Computer Science

- Advised by Dr. S Ravi Kiran

Hyderabad, Telengana

Aug. 2020 – present

International Institute of Information Technology

B.Tech in Computer Science

- CGPA: 8.03/10

Hyderabad, Telengana

Aug. 2016 – Apr. 2020

Saint Xavier's Sr. Sec. School

HighSchool

- AISSCE(Class 12): 94.06/100
- (Class 10): 10/10

Jaipur, Rajasthan

Mar. 2005 – Mar. 2016

EXPERIENCE

Undergraduate Research Assistant

Center for Visual Information Technology(CVIT), IIIT-H

- Explored new frontiers for skeleton action recognition, and curated multiple into-the-wild datasets with increasing levels of complexity
- Explored the benefits of using part of speech aware generative embeddings for zero shot and generalized zero shot skeleton action recognition
- Exploring continual learning for skeleton action recognition, and testing the part of speech based model for the challenging continual zero shot learning problem

June 2018 – Present

Hyderabad, Telengana

Applied Scientist Intern

Amazon India

- Employed siamese networks with a bert based backbone for semantic query and product similarity.
- Explored the feasibility of transferring knowledge from models trained on English language to other European languages.

Jun. 2020 – Aug.2020

Bengaluru(Remote), Karnataka

Teaching Assistant

IIIT-H

- TA for the computer vision course taught by Dr. Avinash Sharma at IIIT-H in spring 20

Jan 2020 – Apr 2020

Hyderabad, Telengana

Google Summer of Code Intern

Purr-Data

- Porting and modifying the codebase of purr-data to support 64 bit double

Jun 2018 – Aug 2018

Remote

Course Project Intern

Variance AI

- Yoga pose correction using the skeleton pose detected via Kinect sensor.

Aug 2017 – Dec 2017

Hyderabad, Telengana

PUBLICATIONS

Quo Vadis, Skeleton Action Recognition?

Pranay Gupta, Anirudh Thatipelli, Aditya Aggarwal, Shubh Maheshwari, Neel Trivedi, Sourav Das, Ravi Kiran Sarvadevabhatla
IJCV

Syntactically guided generative embeddings for zero shot skeleton action recognition

Pranay Gupta, Divyanshu Sharma, Ravi Kiran Sarvadevabhatla
under review, **ICIP**

PROJECTS

News-VQA

Jan 2020 – April 2020

- Independent Study project advised by Dr. Manish Gupta
- Exploring the task of entity based visual question answering on news clips.
- Automating the question generation pipeline.

GSOC18 : Change to Double precision floating point

Jun 2018 – Aug 2020

- Successfully compiling purr-data's core on both single precision(float) and double precision and documenting a process of working/testing on the rest.

Ultimate TIC TAC TOE bot

Aug 2018 – Dec 2018

- Implemented as a part of a course project in Artificial Intelligence course

Bash Shell

Jan 2017 – Apr 2017

- Implemented as a part of a course project in Operating Systems course

ACHIEVEMENTS

Dean's Merit List of Academic Excellence 2019-20 (Awarded to Top 20 % students of the entire batch)
Secured AIR 4152 in JEE advanced
Secured AIR 2249 in JEE Mains
National Talent Search Scholar

RELEVANT COURSES TAKEN

Computer Vision, Digital Image Processing, Mobile Robotics
Statistical Methods in AI, Optimisation Methods, Linear Algebra, Data Analytics
Software Engineering, Data Structure and Algorithms, Operating Systems, Distributed Systems

TECHNICAL SKILLS

Languages: Python, Matlab, C/C++, HTML/CSS

Developer Tools: Git, Vim, VS Code, AWS

Libraries: Pytorch, Opencv, Scikit-Learn, Pandas, NumPy, Matplotlib