

YASH JAIN



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jinga-lala



yash-jain



bitshots

EDUCATION

Georgia Tech, ATL, USA

Masters of Science in Computer Science

GPA: 4.0 / 4.0 | Aug.2021-May.2023

IIT Bombay, India

B.Tech. Computer Science (With Honors)

GPA : 8.91 / 10 | Jul.2017-Jul.2021

KEY COURSEWORK

Graduate Courses:

ML with Limited Supervision

Computer Vision

Deep Learning

Undergraduate Courses:

Natural Language Processing

Organization of Web Information

Artificial Intelligence

Adv. Methods in Satellite Image Proc.

Machine Learning for Remote Sensing

Operating Systems

Data Structures and Algorithms

TECHNICAL SKILLS

Proficient-

• Python • C++ • Tensorflow • Pytorch
• Keras • MATLAB • SQL • GIT • \LaTeX

Familiar-

• Java • Bash • Spark • MapReduce

AWARDS & FELLOWSHIPS

• Research Excellence Award for B.Tech Thesis Project, IITB CS, 2021

• Recipient of Dhirubai Ambani Scholarship for supporting my Master's studies at GaTech, 2021

• Summer Internship Fellowship, Aalto University, Finland (2021)

• All India Rank 29, JEE Advanced 2017

• Gold & Silver Medal representing India- IJSO, Argentina 2014

PUBLICATIONS

UbiComp'22

ColloSSL: Collaborative Self-Supervised Learning for HAR

Yash Jain*, Chi Ian Tang*, Chulhong Min, Fahim Kawsar, Akhil Mathur

ISWC'22 Poster*

On the Effectiveness of Virtual IMU Data for Eating Detection with Wrist Sensors

Yash Jain, Hyeok Kwon, Thomas Plöetz

* Under submission

CIKM'21

Integrating Transductive And Inductive Embeddings

Improves Link Prediction Accuracy

Yash Jain*, Chitrang Gupta*, Abir De, Soumen Chakrabarti

ICML'21

Group Supervised Learning: Extending Self-Supervised Learning to Multi-Device Settings

Yash Jain*, Chi Ian Tang*, Chulhong Min, Fahim Kawsar, Akhil Mathur
Workshop on Self-Supervised Learning for Reasoning and Perception

UbiComp'20

RFID Tattoo: A wireless platform for speech recognition

Jingxian Wang, Chengfeng Pan, Haojian Jin, Vaibhav Singh,

Yash Jain, Jason I. Hong, Carmel Majidi, Swarun Kumar

UbiComp 2020 Best Paper Award, U.S. Patent Pending

IJCAI 2021 Sister Conferences Best Papers

WORK EXPERIENCE

May-Aug'22

Microsoft | Applied Scientist Intern | Michael Bentley & Vibhav Vineet

• Developed a novel pipeline of image difference captioning task for powerpoint slide data by generating a synthetic dataset in a self-supervised manner

Jan-April'22

Google Research, USA | Research collaboration | Dilip Krishnan

• Integrated noisy information from supervised trained models with contrastive learning for decreasing the training time for SSL methods

May-Aug'21

Nokia Bell Labs, UK | Research Intern | Akhil Mathur

Group Supervised Learning: Extending SSL to Multi-Device Settings

• Formulated a novel framework, Group Supervised Learning (GSL), which utilizes synchronous multi-device unsupervised data, extending the principles of contrastive learning to a group setting.

• Outperformed supervised and semi-supervised baselines by 15% in F-1 score in RealWorld dataset.

May-July'20

Flipkart | Data Science Intern | Nikesh Garera & Nithish Pai

Automated E-commerce Question-Answering system

• Generated synthetic queries from a limited set of user query to increase the dataset size by more than 30%.

• Combined BERT and GPT-2 models for developing a target product-type classification system which would then prompt the text-generation model to answer user query in natural language

RESEARCH PROJECTS

Aug-Dec'21

CLRView: View Selection for Contrastive Learning of Visual Representations
Prof. Judy Hoffman

• Utilized multiple camera views as augmentations for contrastive learning by addressing the view selection problem during training.

• Outperformed SimCLR and SimSiam baselines on WildTrack dataset.

Aug-Dec'20

Meta Self-learning with Noisy Student

Prof. Biplab Banerjee

• While training large networks using MAML is expensive, our proposed method allows for training of large student networks using few-shot pseudo labels which outperforms the teacher learnt using MAML in fewer epochs