

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
Machine Learning
Introduction to Graduate Algorithms

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
- CIKM'21 Integrating Transductive And Inductive Embeddings Improves Link Prediction Accuracy
Chitrang Gupta*, Yash Jain*, 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'21 Nokia Bell Labs, UK | Research Intern | Dr. 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 0.15 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
- May-Jul'19 Carnegie Mellon University | Research Intern | Prof. Swarun Kumar
RFID Tattoo: A wireless platform for speech recognition
• Speech recognition platform for voice impairments through wafer-thin, battery-free and stretchable RFID Tattoo.
• Collected own sensor data and implemented Random Forest model calibrated on the stretch of tags to achieve state of the art 86% accuracy on a vocabulary size of 100 most common English words

RESEARCH PROJECTS

- Present VS-CLR: View Selection for Contrastive Learning of Visual Representations
Prof. Judy Hoffman
Utilizing multiple camera views as augmentations for contrastive learning by addressing the view selection problem during training. Outperformed SimCLR and SimSiam baselines on WildTrack dataset
- Dec-Apr'21 Integrating Transductive And Inductive Embeddings Improves Link Prediction Accuracy
Prof. Soumen Chakrabarti & Prof. Abir De
Provided alternative to node features in Online Social Network (OSN) graphs using transductive embeddings, protecting user privacy while improving link prediction performance in GNNs
- 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