YASH JAIN

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jinga-lala



yash-jain



bitshots

EDUCATION

Georgia Tech, ATL, USA Masters of Science in Computer Science 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, IIT Bombay CS, 2021

Summer Internship Fellowship, Aalto University, Finland (2021) & Carnegie Mellon University, USA (2019)

All India Rank 29, JEE Advanced 2017

All India Rank 8, KVPY Fellowship-Dept. of Science & Technology, Govt. of India, 2016

Gold & Silver Medal representing India- IJSO, Argentina 2014

PUBLICATIONS

Submitted Group Supervised Learning for Human Activity Recognition

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

CIKM'21 Integrating Transductive And Inductive Embeddings

Improves Link Prediction Accuracy

Chitrank Gupta*, <u>Yash Jain</u>*, Abir De, Soumen Chakrabarti

ICML'21 Group Supervised Learning: Extending Self-Supervised Learning

to Multi-Device Settings

<u>Yash Jain</u>*, 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

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.

 \cdot Outperformed supervised and semi-supervised baselines by 0.15 in

F-1 score in RealWorld dataset.

May-July'20 Flipkart | Data Science Intern

Automated E-commerce Question-Answering system

· Generated synthetic queries from a limited set of user query to in-

crease 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, USA | Research Intern

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 Generating virtual IMU data for effective activity recognition systems

with a focus on eating

Prof. Thomas Ploetz

Working on improving IMUTube for developing a DL based food-

monitoring system using smartwatch data

Present Group contrastive learning with noisy labels Prof. Judy Hoffman

Integrating the ideas of group contrastive learning with noisy labels

for downstream object recognition tasks

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