YASH JAIN

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404.429.4813



jinga-lala



yash-jain



bitshots

EDUCATION

Georgia Institute of Technology MS 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:

Machine Learning with Limited

Supervision

Machine Learning

Introduction to Graduate Algorithms

Undergraduate Courses:

Natural Language Processing Organization of Web Information

Artificial Intelligence

Advanced Methods in Satellite Image

Processing

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

Ubiquitous Computing, Self-supervised learning, Natural Language Processing, Human Centric Machine Learning, Human Computer Interaction, Graphical Neural Nets

[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*, 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

Group Supervised Learning: Extending SSL to Multi-Device Settings Proposed a new problem setting, Time-synchronous multi-device systems (TSMDS). Formulated a novel framework, Group Supervised Learning (GSL), addressing the TSMDS problem, utilizing the principles of contrastive learning in a group setting. Outperformed supervised and semi-supervised approaches by 0.15 in F-1 score.

May-July'20 Flipkart | Data Science Intern

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 all in real-time.

May-Jul'19 Carnegie Mellon University, USA | Research Intern

RFID Tattoo: A wireless platform for speech recognition

Speech recognition platform for voice impairments through waferthin, 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

Integrating Transductive And Inductive Embeddings Improves Link Dec-Apr'21

> 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

Jun-May'20 Answer-type Inference in QA systems Prof. Soumen Chakrabarti Outperformed an existing Answer-Type Inference RNN based

manuscript system by almost 20% across 4 Question-Answering

datasets by deploying BERT architecture

Meta Self-learning with Noisy Student Aug-Dec'20 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