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EDUCATION

Carnegie Mellon University, School of Computer Science

Pittsburgh, PA

Master of Science in Intelligent Information Systems (Language Technologies Institute)

December 2022

Coursework: Introduction to ML, ML with Large Datasets, Human Language for AI, Advanced NLP, Multilingual NLP,
 Computational Ethics for NLP, Probability and Mathematical Statistics

Birla Institute of Technology and Science

Pilani, India

Bachelor of Engineering (Hons.) Computer Science (Distinction)

June 2019

- Thesis: Copy Mechanisms for Upstream Text Processing [pdf]

EXPERIENCE

Supernormal Mountain View, CA

Machine Learning Engineer | AI Core

April 2023 - Present

- Supernormal captures meetings and generates notes, summaries, and action items using large language models (LLMs)
- Lead and own **note quality evaluation** and prompt engineering for note quality enhancement

Carnegie Mellon University

Pittsburgh, PA

Research Assistant (Mentors: Fei Fang and Lei Li)

March - June 2023

- Partnered with the World Wide Fund for Nature to identify multilingual environmental conservation news
- Designed and deployed a system utilizing large language models (LLMs) to identify conservation news in low-resource languages such as Nepali
- Achieved state-of-the-art performance using < 10% of the data required by existing methods, significantly reducing manual annotation efforts.

Menlo Park, CA

Software Engineering Intern | Ad Enhancement and Delivery

June - August 2022

- Collaborated with the Creative Engineering team on augmented reality (AR) enhanced ad transformations
- Built **pipelines** to identify best **AR effects for ad enhancement** and built guardrails against low-quality transformations

Samsung Research Institute

Bangalore, India

Software Engineer | Voice Intelligence R&D

July 2019 - December 2020

- Developed **on-device** language capabilities to reduce server costs and improve offline performance of Bixby
- Designed memory-efficient data structures and caching mechanisms to improve latency of the on-device NLU engine

University of Zurich

Zurich, Switzerland

Research Intern (Mentor: Tanja Samardžić)

January - May 2019

- Improved low-resource performance of LSTM encoder-decoders on morphological tasks by introducing a copy mechanism
- Applied the architecture for normalization of the Swiss-German language and for morphological segmentation of the English,
 German, and Indonesian languages

Aix-Marseille University and CNRS

Aix-en-Provence, France

Research Intern (Mentor: Philippe Blache)

May - July 2018

- Designed a model to automatically estimate presence during humans interactions with embodied conversational agents
- Built **multimodal** classifiers to estimate this from humans' verbal and non-verbal cues during virtual reality interactions, significantly **reducing human effort** as presence estimation is typically performed using subjective questionnaires

PUBLICATIONS

1. "Where It Really Matters: Few-Shot Environmental Conservation Media Monitoring for Low-Resource Languages"

Sameer Jain, Sedrick Keh, Shova Chettri, Karun Dewan, Pablo Izquierdo, Johanna Prussman, Pooja Shreshtha, César Suárez, Ryan Shi, Lei Li, and Fei Fang

AAAI Conference on Artificial Intelligence - AI for Social Impact Track

AAAI '24

"Multi-Dimensional Evaluation of Text Summarization with In-Context Learning" [pdf]
 Sameer Jain, Vaishakh Keshava, Swarnashree Mysore Sathyendra, Patrick Fernandes, Pengfei Liu, Graham Neubig, and Chunting Zhou

Findings of the Annual Meeting of the Association for Computation Linguistics

ACL Findings '23

3. "Four Years of FAccT: A Reflexive, Mixed-Methods Analysis of Research Contributions, Shortcomings, and Future Prospects" [pdf] Benjamin Laufer, Sameer Jain*, A. Feder Cooper*, Jon Kleinberg, and Hoda Heidari

Proceedings of the ACM Conference on Fairness, Accountability, and Transparency

FAccT '22

4. "Toward an Automatic Prediction of the Sense of Presence in Virtual Reality Environment" [pdf] Magalie Ochs, **Sameer Jain**, and Philippe Blache International Conference on Human-Agent Interaction

HAI '18

PROJECTS

Evaluation of Machine-generated Text using In-context Learning

CMU

Mentors: Chunting Zhou and Graham Neubig

August - December 2022

- Designed a framework for using large language models (LLMs) to evaluate the quality of artificially generated summaries
- Achieved state-of-the-art performance on quality evaluation while using < 0.1% of the training data used by existing methods

Mixed-method Reflexive Analysis of FAccT

CMU

Mentors: Hoda Heidari and Jon Kleinberg

January - December 2021

- Identified areas of focus in the fair machine learning domain through community detection in fair-ML citation networks
- Uncovered the moral underpinnings of Fair-ML literature against the framework given by the Moral Foundations Theory

SKILLS

• Languages: Python, C/C++, Java, SQL

• Frameworks: PyTorch, TensorFlow, Spark

SCHOLARSHIPS AND AWARDS

- National Talent Search Examination (NTSE) Scholarship, awarded to 1000 students among 1 million candidates by the National Council of Educational Research and Training (NCERT), India
- Kishore Vaigyanik Protsahan Yojana (KVPY) Fellowship, offered to 800 candidates out of 50,000 applicants by the Department of Science and Technology, Government of India, in collaboration with Indian Institute of Science, Bangalore
- All India Rank 381 among 1.3 million candidates in IIT-JEE Mains 2015
- All India Rank 1606 among 117,000 candidates in IIT-JEE Advanced 2015
- BITS Pilani Merit Scholarship, awarded to the top 3% of the undergraduate class
- Graduated from BITS Pilani with the Distinction division, the highest academic honors awarded to bachelor's degree students