

Mudit Chaudhary

Incoming Fall 21 Graduate Student at UMass Amherst

Website: muditchaudhary.github.io

Email: mchaudhary@umass.edu

LinkedIn: [/in/muditchaudhary](https://in/muditchaudhary)

Github: muditchaudhary

Education

University of Massachusetts, Amherst

M.S. in Computer Science | Concentration: Data Science

M.A., USA

2021-2023

The Chinese University of Hong Kong

B.Sc. in Computer Science | Concentration: Intelligent Science

Hong Kong

2016-2020

Minor: Data Analytics and Informatics

Honours/Awards: Dean's List, College Head's List, Yuen Bing Kwan Ming De Xin Alumni Prize, 1976 Ming De Xin Min Alumni Academic Prize, Honours at Entrance, Faculty of Engineering Admission Scholarship, University Full-tuition Admission Scholarship

Work Experience

The Chinese University of Hong Kong

Full-time Research Assistant (Supervisor: Professor Helen Meng)

Hong Kong

Aug 2020 – Aug 2021

- Researched on Dialog Systems, Cross-lingual Hyperbolic Word Embeddings, and NLP
- Submitted research papers to major conferences. 1 paper currently under review
- Assisted in the development and deployment of a knowledge-grounded dialog system
- Assisted in the development of AI teaching curriculum and tools for high school students as part of the 'CUHK-Jockey Club AI for the Future' project
- Communicated with different stakeholders to improve the AI teaching curriculum
- Developed, deployed, and scaled Aspect-Based Sentiment Analysis and Voice Conversion deep learning models to production
- Conducted API load testing using Apache JMeter
- Developed dashboard for monitoring and managing the deployed web-APIs
- Designed and conducted AI workshops for school teachers and students
- Maintained and configured GPU servers for model development, training, and deployment
- Setup knowledge collaboration and sharing platform for the project team
- Trained and assisted project interns

Logistics and Supply Chain MultiTech (LSCM) R&D Centre

Summer Intern (Supervisor: Dr. Dorbin Ng)

Hong Kong

Jun 2019 – Aug 2019

- Performed research, developed, and trained the Transformer NMT model and Deep Learning Sequence Models for domain-specific translation
- Performed feasibility analysis and generated computational resource estimations for the models
- Planned and developed Deep Learning Models to learn non-verbal features in conversational setting for chatbot augmentation

The Chinese University of Hong Kong

Part-time Research Assistant (Supervisor: Professor Bei Yu)

Hong Kong

Feb 2019 – Aug 2019

- Assisted research on 'Faster Region-Based Hotspot Detection using Deep Learning'
- Learned about two-stage object detection models: Faster-RCNN

Major Projects and Publications

- **Unstructured Knowledge Access in Task-oriented Dialog Modeling using Language Inference, Knowledge Retrieval and Knowledge-Integrative Response Generation:** Workshop paper accepted for AACL-21 Conference's Dialog Systems Technology Challenge 9 (DSTC9) Workshop [\[arXiv:2101.06066\]](https://arxiv.org/abs/2101.06066) [\[Github\]](#)
- **Improved RepPoints Object Detection Model with novel KQR Attention:** Final Year Project under the supervision of Prof. Bei Yu. Focused on training balancing methodologies and developed a novel KQR Attention mechanism based on Transformer attention for RepPoints model [\[Github\]](#)
- **Small Sample Learning:** Food Classification from a small training sample. Project for Huawei AI Cloud Developer Challenge 2019 (Top 10 Finalists) [\[Github\]](#)
- **UTrack:** Android mobile application to keep track of university applications [\[Github\]](#)

Skills and Certifications

Certification: Microsoft Azure AI Fundamentals AI-900 Credential ID: oQCV-uSoV

Technical Skills: Python, Java, Kotlin, C, C++, PyTorch, Keras, Tensorflow, Linux, Docker, Flask, Django, RESTful API, Android app development, HTML, CSS, Git, mmdetection, Apache JMeter, MongoDB, MySQL