Mudit Chaudhary

Incoming graduate student looking for Summer 2022 Internship

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Education

University of Massachusetts, Amherst	**M.A., USA**
M.S. in Computer Science | Concentration: Data Science	**Sep 2021 - May 2023**

The Chinese University of Hong Kong	**Hong Kong**
B.Sc. in Computer Science | Concentration: Intelligent Science	**Sep 2016 - May 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 — **Hong Kong / Aug 2020 - Aug 2021**

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

- 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 55 high schools in Hong Kong 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 — **Hong Kong / Jun 2019 - Aug 2019**

Summer Intern (Supervisor: Dr. Dorbin Ng)

- 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 — **Hong Kong / Feb 2019 - Aug 2019**

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

- 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 AAAI-21 Conference's Dialog Systems Technology Challenge 9 (DSTC9) Workshop — [arXiv: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