Incoming graduate student looking for Summer 2022 Internship

Mudit Chaudhary

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EDUCATION

University of Massachusetts, Amherst, MA, USA (Incoming)

Master of Science, Computer Science with concentration in Data Science

Sep 2021 – May 2023

The Chinese University of Hong Kong, Hong Kong

Sep 2016 – May 2020

Bachelor of Science, Computer Science with concentration in Intelligent Science

Minor: Data Analytics and Informatics

PROFESSIONAL AND RESEARCH EXPERIENCE

The Chinese University of Hong Kong, Hong Kong

August 2020 - August 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

June 2019 - August 2019

Summer Intern (Supervisor: Dr. Dorbin Ng)

- Performed research, developed and trained the Transformer NMT model and Deep Learning Sequence Models for domainspecific 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

February 2019 - August 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
- Updated the codebase to support Python 3

First Code Academy, Hong Kong

June 2018 - August 2018

Summer Intern

- Taught programming skills to students, including Python, HTML/CSS, microcontrollers, app development, and VR
- Responsible for course creation and periodically communicating students' performance with their parents
- Assisted in the creation & organization of Standard Onboarding Procedures

Centre for Global Health, The Chinese University of Hong Kong

August 2017 - September 2017

Front-end web developer

• Comprehensively updated over 104 webpages, which included creating and remodeling the content as well as the design style enhancing the user experience significantly

PROJECTS

• Final Year Research Project- Revisiting Object Detection Model

Worked under the supervision of Prof. Bei Yu to improve the performance of the RepPoints Object Detection Model. Focused on training balancing methodologies and developed a novel KQR Attention mechanism based on Transformer attention. Used PyTorch and mmdetection framework. Achieved final grade 'A.'

• UTrack- University Application Tracker Android App

Developed an android app for for graduating students to track graduate school applications.

Skin Lesion Classification to detect Skin Cancer using Deep Neural Networks

Course research project under the supervision of Prof. K.S. Leung and Mr. FU Xinyu. Trained the ResNet model to detect and classify skin lesions. Achieved an accuracy of 78%.

• Drug Molecular Toxicity Prediction using Deep Neural Networks

Deep learning model to predict the toxicity of a molecule based upon its structure. An application-based project as a part of the course – 'Fundamentals of Artificial Intelligence.'

• Small Sample Learning

Deep Learning model to learn from small samples using Transfer Learning. Top 10 finalist for Huawei AI Cloud Developer Challenge.

NoQueue

A food ordering application based on the Django framework.

• Employee Hiring Portal

Created an employee hiring portal using Java and SQL.

• 2048 Game with AI

Developed a 2048 Game with an AI player using C-Language.

PUBLICATIONS

• 'Unstructured Knowledge Access in Task-oriented Dialog Modeling using Language Inference, Knowledge Retrieval and Knowledge-Integrative Response Generation'- Workshop paper accepted for AAAI 2021 Conference's DSTC9 Workshop [arXiv:2101.06066]

CERTIFICATIONS

- 'Microsoft Azure AI Fundamentals AI-900'- Credential ID: oQCV-uSoV
- 'Neural Networks and Deep Learning' authorized by deeplearning.ai and offered by Coursera

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

AWARDS AND SCHOLARSHIPS

• Selected for Faculty of Engineering Dean's List 2019-2020 for outstanding academic performance	2020
 Selected for United College Head's List 2019-2020 for outstanding academic performance 	2020
• Received Yuen Bing Kwan Ming De Xin Alumni Prize for outstanding academic performance	2019
 Received 1976 Ming De Xin Min Alumni Academic Prize for outstanding academic performance 	2018
• Received 'Honors at Entrance' for exceptional academic performance at admission	2017
 Awarded Faculty of Engineering Admission Scholarship worth ~USD 5900 	2016
• Awarded full-tuition scholarship at The Chinese University of Hong Kong	2016 - 2020

EXTRACURRICULAR ACTIVITIES

- Participated in Huawei AI Cloud Developer Challenge 2019. Qualified as top 10 finalists. (2019)
- Honorable Mention in the World Asian Case Competition conducted by the Academy of Asian Business. (2019)
- Appointed the Vice-Chairperson for the Hong Kong Institution of Engineers CUHK Student Chapter. (2017-2018)
- Organized events to promote cultural integration and internationalization throught the i-Ambassadors scheme at The Chinese University of Hong Kong. (2018)
- Co-founder and Creative Director for the Association of Indian Students at The Chinese University of Hong Kong. (2016-2018)
- Member of the Toastmasters International at United College, CUHK. (2017-2018)