

# Mudit Chaudhary

Flat C, 21/F, Man Sun House, 163-173 Portland Street, Mong Kok, Kowloon, Hong Kong S.A.R.  
Email: [muditchaudhary@cuhk.edu.hk](mailto:muditchaudhary@cuhk.edu.hk); [muditchaudhary7@gmail.com](mailto:muditchaudhary7@gmail.com) || Contact No: +852 6484 5385 || Github: muditchaudhary

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## EDUCATION

<b>The Chinese University of Hong Kong, Hong Kong</b>	2016 - 2020
Bachelor of Science, Computer Science with specialization in Intelligent Science	
Minor: Data Analytics and Informatics	CGPA: 3.46/4.00   Major GPA: 3.487   Final Year GPA: 3.95
<b>Delhi Public School R.K. Puram, New Delhi, India</b>	2014 - 2016
Senior Secondary Examination, CBSE	Aggregate: 93.1%
<b>Riverdale International School, Bazpur, India</b>	2004 - 2014
Higher Secondary Examination, CBSE	CGPA: 10/10

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## PROFESSIONAL EXPERIENCE

<b>Logistics and Supply Chain MultiTech (LSCM) R&amp;D Centre, Hong Kong</b>	June 2019 - August 2019
Summer Intern (Supervisor: Dr. Dorbin Ng)	
<ul style="list-style-type: none"><li>Performed research, developed and trained the Transformer NMT model and Deep Learning Sequence Models for domain-specific translation</li><li>Performed feasibility analysis and generated computational resource estimations for the models</li><li>Planned and developed Deep Learning Models to learn non-verbal features in conversational setting for chatbot augmentation</li></ul>	
<b>First Code Academy, Hong Kong</b>	June 2018 - August 2018
Summer Intern	
<ul style="list-style-type: none"><li>Taught programming skills to students, including Python, HTML/CSS, microcontrollers, app development, and VR</li><li>Responsible for course creation and periodically communicating students' performance with their parents</li><li>Assisted in the creation &amp; organization of Standard Onboarding Procedures</li></ul>	
<b>Centre for Global Health, The Chinese University of Hong Kong</b>	August 2017 - September 2017
Front-end web developer	
<ul style="list-style-type: none"><li>Comprehensively updated over 104 webpages, which included creating and remodeling the content as well as the design style enhancing the user experience significantly</li></ul>	

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## RESEARCH EXPERIENCE

<b>The Chinese University of Hong Kong, Hong Kong</b>	August 2020 - Present
Full-time Research Assistant (Supervisor: Professor Helen Meng)	
<ul style="list-style-type: none"><li>Working in the field of Dialog Systems and Natural Language Processing</li><li>Participated in the 9<sup>th</sup> Dialog System Technology Challenge (DSTC9) and submitted a workshop paper for AACL 2021</li><li>Assisting in the development of teaching curriculum and tools for high school students as part of the 'CUHK-Jockey Club AI for the Future' project</li></ul>	
<b>The Chinese University of Hong Kong, Hong Kong</b>	February 2019 - August 2019
Part-time Research Assistant (Supervisor: Professor Bei Yu)	
<ul style="list-style-type: none"><li>Assisted research on 'Faster Region-Based Hotspot Detection using Deep Learning'</li><li>Learned about two-stage object detection models: Faster-RCNN</li><li>Updated the codebase to support Python 3</li></ul>	

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## 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. Completed as part of the individual project for the course – ‘Mobile Computing and App Development.’ Achieved final grade ‘A.’
- **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. Completed as part of the course – ‘Software Engineering.’
- **Employee Hiring Portal**  
Created an employee hiring portal using Java and SQL. Completed as part of the course – ‘Introduction to Database Systems.’
- **2048 Game with AI**  
Developed a 2048 Game with an AI player using C-Language. Completed as part of the course – ‘Problem Solving By Programming.’ Achieved the grade ‘A’ in the course.

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### 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

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### CERTIFICATIONS

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

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### TECHNICAL SKILLS

C, C++, Java, Python, Kotlin, COBOL, Pytorch, Keras, Tensorflow, Machine Learning, Linux, Django, Flask, Docker, mmdetection, Google Cloud Platform, Slurm, Android app development, HTML, CSS, MySQL

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### 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

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### EXTRACURRICULAR ACTIVITIES

- Nominated for Cyberport University Partnership Programme (CUPP) by CUHK. (2020)
- 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 through 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)
- Volunteered for beach cleanup organized by Hong Kong Cleanup and Youth Empact. (2016)