

Sukmin Kim

u3544547@connect.hku.hk
linkedin.com/in/smkim7
github.com/smkim7-kr

EDUCATION	The University of Hong Kong <ul style="list-style-type: none">Bachelor of Engineering in Computer ScienceCGPA: 3.72 / 4.3 (Major CGPA: 3.85 / 4.3)A+ in Software Engineering, Applied Deep Learning, Calculus, Linear algebra, Probability & Statistics, Discrete Mathematics North London Collegiate School Jeju <ul style="list-style-type: none">International Baccalaureate: overall score 42 / 45Achieved level 7 in all HL Subjects: Mathematics, Physics and EconomicsIGCSE (7 A* including Mathematics, Additional Mathematics and Biology)	<i>Sept. 2017 - Present</i> <i>Hong Kong SAR</i> <i>Sept. 2013 - Jun. 2017</i> <i>Jeju, South Korea</i>
SKILLS	Core Python, C/C++, Linux, Java, Git, L ^A T _E X Machine Learning Numpy, Pandas, Pytorch, Matplotlib, Scikit-Learn, Tensorflow, Keras MLOps Pytorch Lightning, WandB Web Development Django, HTML, CSS, PHP, Node.js, React Database SQL, MySQL, MongoDB Language English (<i>fluent</i>), Korean (<i>native</i>) <ul style="list-style-type: none">GRE: Verbal (159, 81%), Quantitative (170, 96%), Writing (4.0, 54%)TOEFL IBT: 107 (Reading: 30, Listening: 28, Speaking: 23, Writing: 26)	
RESEARCH EXPERIENCES	HKU MMLab <i>Part-time Research Assistant</i> <ul style="list-style-type: none">Assisting research paper on autonomous driving, proposing metrics and dataset that predicts the accidents in driving scenarioPlanning to submit paper for <i>CVPR 2023</i> Psuedo Lab <i>Surgical Data Science Research Team member</i> <ul style="list-style-type: none">Researching on a method to differentiate between right and left hemiliver during surgeryProposing metric-based evaluation method of models, by categorizing labelling difficulty of ground truth labels from experts URFP (Undergraduate Research Fellowship Programme) <ul style="list-style-type: none">Proposed a method that pre-train model by masked image modelling, then finetune to the unsupervised domain adaptation in autonomous driving, supervised by Prof. Ping Luo	<i>Sept. 2022 - Present</i> <i>Aug. 2022 - Present</i> <i>Jul. 2022 - Aug. 2022</i>
WORK EXPERIENCES	Psuedo Lab <i>Computer Vision Paper Reading Team member</i> <ul style="list-style-type: none">Reviewed and discussed papers and codes of recent computer vision research papersPresented three papers: AdaMatch, Self-Damaging Contrastive Learning and Meta Pseudo Labels CERT (Computer Emergency Response Team) <i>2nd Corps Squad Leader</i> <ul style="list-style-type: none">Responded to potential cyber attacks including virus, port scan and malwareControlled several Linux servers and military security systems such as UTM and NAC	<i>Jul. 2021 – Nov. 2021</i> <i>Sept. 2019 - Apr. 2021</i>

- Monitored 24/7 for potential vulnerabilities in the system

COMPETITIONS	Naver Clova AI Rush 2022	<i>Jul. 2022 - Aug. 2022</i>
	<i>Finalist with 800 USD cash prize</i> <ul style="list-style-type: none"> • Solved image classification task to classify Seoul landmark images • Solved recommendation task to recommend music to users of Naver VIBE platform 	
	Naver Clova AI Rush 2021	<i>May 2021</i>
	<i>Top 150 participant with 600 USD cash prize</i> <ul style="list-style-type: none"> • Solved image classification task to classify shopping images into three levels of hierarchical categories with limited computational resources 	
AWARDS / CERTIFICATES	HKU Foundation Entrance Scholarship	<i>Sept. 2017 - Present</i>
	• Received half tuition scholarship for the whole duration of undergraduate study	
	Dean's Honors List	<i>Sept. 2018</i>
	Deep Learning Specialization by DeepLearning.AI	<i>May 2021</i>
	Cisco Certification Network Associate (CCNA)	<i>May 2019</i>
	MOS Master 2016 Certificate	<i>Aug. 2018</i>
PROJECTS	Whisk(e)y Classifier	<i>Feb. 2022 - Apr. 2022</i>
	<ul style="list-style-type: none"> • Built an application to detect whiskey from self-collected and labeled whiskey dataset using MMde-tection framework • Optimized the result with WandB logging, hyperparameter tuning and data quality improvement 	
	Latent-is-all-you-need	<i>Oct. 2021 - Nov. 2021</i>
	<ul style="list-style-type: none"> • Implemented results from Variational AutoEncoder and Conditional Variational AutoEncoder • Presented image reconstruction results with different latent dimensions and manifold learning results • Used WandB to log results and metrics, and to tune deep learning hyperparameters. 	
	MixMatch-AdaMatch-pytorch	<i>Jul. 2021 - Aug. 2021</i>
	<ul style="list-style-type: none"> • Implemented <i>MixMatch: A Holistic Approach to Semi-Supervised Learning</i> and <i>AdaMatch: A Unified Approach to Semi-Supervised Learning and Domain Adaptation</i> • Investigated recent breakthrough in semi-supervised learning 	
	Deep Learning paper study	<i>Apr. 2021 - Present</i>
	<ul style="list-style-type: none"> • Reviewed deep learning research papers and codes from fields of interest including self-supervised learning and 3D vision 	