YASH SHARMA

(845) 290-4694 yash.sharma200999@gmail.com github.com/yash-s20

EDUCATION		
Cornell University Master of Science in Computer Science GPA: 3.96 / 4.00, M 		Aug 2022 – May 2024
Graduate courses: Computational Sustainability, Advanced		
 Indian Institute of Technology Bombay Bachelor of Technology in Computer Science & Engineering GPA: 9.68 / 10, Honors GPA: 10 / 10, Minor GPA: 9.4 / 10 	<i>Mumbai, India</i> with Honors, Minor in Artific	Aug 2017 – May 2021 ial Intelligence & Data Science
WORK EXPERIENCE		
Software Engineer, Samsung Electronics Suwon, South Korea Sep 2021 – Aug 2022 • Key role in developing high-performance, low-latency physical layer for 5G wireless communication as a member of Physical Uplink Shared Channel team, focusing on core-cycle and cache bottleneck optimization. • Utilized Intel®Intrinsics (AVX-512) for efficient parallel processing of data • Reduced bottlenecks in uplink signal processing pipeline to achieve upto 20% speedup • Utilized Intel®Intrinsics (AVX-512)		
Network Engineer Intern, Samsung ElectronicsBuilt an automated network load testing framework to eval	<i>remote</i> uate performance of in-produ	Jun 2020 – July 2020 uction load balancing services
Machine Learning Research Intern, TU Braunschweig Designed and built WeLineation, a full-stack app using Expension 	Braunschweig, Germany ectation Maximization for me	May 2019 – Jul 2019 edical image segmentation.
RESEARCH EXPERIENCE		
Master's Thesis - Prof. Sanjiban Choudhury Built Video2Demo and Demo2Code using Vision-Language tra tions. Built a web-based simulator and evaluator for Mosaic's	-	Feb 2023 – Apr 2024 e robot code from demonstra-
Undergraduate Research - Prof. Preethi JyothiIIT Bombay & MicrosoftImproving code-switched Automatic Speech Recognition using TransformersAug 2020 – Jun 2021Built a new bilingual speech recognition model conditioned on language using CUDA accelerated dynamic programmingImproving Low Resource Code-switched ASR using Augmented Code-switched TTSDec 2019 – Jun 2020Used E2E Automatic Speech Recognition models trained on Hindi and English monolingual data and code-switched Textto Speech (TTS) to improve performance in low-resource settings		
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