Dr. Vivek Adarsh

Contact	AviAI Inc. 5662 Calle Real California 93117	vivek@aviai.io https://vivekadarsh.com https://linkedin.com/in/vivekadarsh	
Education	University of California, Santa Barbara Doctor of Philosophy (Ph.D.), Computer Scien	July 2022	
	<i>Thesis:</i> Autonomous and Predictive Systems to Enhance the Performance of Resilient Networks <i>Advisor:</i> Prof. Elizabeth Belding		
	University of California, Santa Barbara Master of Science (M.S.), Computer Science	June 2018	
	University of Pune Bachelor of Technology (B.Tech), Electrical Eng	gineering June 2016	
Professional Experience	Chief Executive Officer - AviAI, Inc. AviAI's Operational Intelligence Platform to enable 10X faster decision-making for A Responsibilities: Product development, Sa	Aug 2022 - Present uses AI/ML airlines les, and Fundraising	
	Research Associate - Hewlett Packard La Networking and Distributed Systems Lab Project - SmartFabric: AI-Acceleration on t	bs Jun 2021 - Sep 2021 the Fly using DPUs	
	Graduate Research Assistant University of California, Santa Barbara Department of Computer Science	Mar 2017 - Jul 2022	
	Research Associate - Hewlett Packard LabsJun 2020 - Sep 2020Networked Systems GroupProject - SARAS: Intelligent Edge Acceleration using SmartNICs		
	Software Engineer Intern - LogMeIn Inc. Predicting cloud infrastructure failures and troubleshooting using DeepLearning mod	Jun 2018 - Sep 2018 d automated els.	
	Research Intern - NVIDIA Singapore Automated extraction and conversion of u metadata to structured data (U2S) using p	Jan 2015 - Apr 2015 nstructured video arallel computing (Pascal architecture).	
Patents & Inventions	Directing Queries to Worker Nodes of a Cluster of a Container Orchestration Platform Distributed across a Host System and a Hardware Accelerator of the Host System Diman Zad Tootaghaj, Anu Mercian, Vivek Adarsh, Puneet Sharma. US Patent 11436054B1		

Press & Media Coverage	 Millions of Americans can't get broadband because of a faulty FCC map There's a fix. By Shara Tibken, CNET. February 19th 2021. (CNET has the world's highest readership among Web news sites, with more than 200 million readers per month.) Available here: https://www.cnet.com/features/millions-of-americans- cant-get-broadband-because-of-a-faulty-fcc-map-theres-a-fix/ Networking and Distributed Systems Lab's intern wins Best in Class for sum- mer project. By Curt Hopkins, Hewlett Packard Labs. September 24th 2020. Available here: https://community.hpe.com/t5/Advancing-Life-Work/Net working-and-Distributed-Systems-Lab-s-intern-wins-Best-in/ba-p/7 102384# 	
Awards &	• 2 ^{<i>nd</i>} Runner-up, New Venture Startup Competition 2021	
Recognition	Won the <i>Best in Class</i> competition among 400 interns at Hewlett Packard Enterprise (international competition) 2020	
Refereed Publications	 [1] Characterizing Internet Access and Quality Inequities in California M-Lab Measurements Paul, Jiamo Liu, David Farias-Ilerenas, Vivek Adarsh, Arpit Gupta, Elizabeth Belding ACM Conference on Computing Systems and Sustainable Societies (COMPASS 2022) 	
	[2] Too Late for Playback: Estimation of Video Stream Quality in Rural and Urban Contexts Vivek Adarsh, Michael Nekrasov, Udit Paul, Alex Ermakov, Arpit Gupta, Morgan Vigil-Hayes, Ellen Zegura, Elizabeth Belding Proceedings of the Passive and Active Measurement Conference (PAM '21)	
	[3] Characterizing Performance Inequity Across U.S. Ookla Speedtest Users Udit Paul, Jiamo Liu, Vivek Adarsh, Mengyang Gu, Arpit Gupta, Elizabeth Belding arXiv preprint arXiv:2110.12038	
	[4] Estimation of Congestion from Cellular Walled Gardens using Passive Measurements Vivek Adarsh, Michael Nekrasov, Udit Paul, Elizabeth Belding IEEE Transactions on Mobile Computing.	
	[5] Coverage is Not Binary: Quantifying Mobile Broadband Quality in Urban, Rural, and Tribal Contexts Vivek Adarsh, Michael Nekrasov, Udit Paul, Tarun Mangla, Arpit Gupta, Mor- gan Vigil-Hayes, Ellen Zegura, Elizabeth Belding Proceedings of the IEEE 30th International Conference on Computer Commu- nications and Networks (ICCCN '21)	

	[6] A Tale of Three Datasets: Towards Characterizing Mobile Broadband A in the United States Tarun Mangla, Esther Showalter, Vivek Adarsh, Kipp Jones, Morgan Vigil-Hayes, Elizabeth Belding, Ellen Zegura Communications of the ACM (CACM)			
	 [7] Packet-level Overload Estimation in LTE Networks using Passive Measurements Vivek Adarsh, Michael Nekrasov, Ellen Zegura, Elizabeth Belding Proceedings of the Internet Measurement Conference (IMC '19) [8] #Outage: Detecting Power and Communication Outages from Social Networks Udit Paul, Alex Ermakov, Michael Nekrasov, Vivek Adarsh, Elizabeth Belding Proceedings of the World Wide Web Conference (WWW '20) [9] MPTCP Performance over Heterogeneous Subpaths Vivek Adarsh, Paul Schmitt, Elizabeth Belding. IEEE 28th International Conference on Computer Communication and Networks (ICCCN '19) 			
	[10] Evaluating LTE Coverage and Quality from an Unmanned A Michael Nekrasov, Vivek Adarsh, Udit Paul, Esther Showalte Morgan Vigil-Hayes and Elizabeth Belding IEEE 16th International Conference on Mobile Ad Hoc and (MASS '19)	ircraft System er, Ellen Zegura, Sensor Systems		
Invited Talks	• Decoding Cellular Walled Gardens Google Inc. (NetInfra Team)	February 2020		
Professional Services	 Technical Program Committee, ACM SIGCOMM Artifact Evaluation Committee 	2021		
	• External Reviewer, IEEE Wireless Communications and			
	Networking Conference (WCNC)	2021		
	 External Reviewer, IEEE Wireless Communications Letters Jou Judge, SB Hacks VII (UCSB's Annual Hackathon Competition) 	rnal 2020) 2021		
Student	– [Research Project] A study of QoE-estimation models			
WIENTORSHIP	Khalid Mihlar (BS, Computer Science, UCSB)			
	- [Research Project] Edain: A Comprehensive Network Monitoring Suite			
	Anurag Bansal (BS, Computer Science, IIT Roorkee)			
	• Jitesh Jain (BS, Computer Science, IIT Roorkee)			
	• Ria Elizabeth John (BS, Computer Science, IIT Roorkee)			
	- [Research Project] Quantifying Video Streaming Quality on Mobile Broadband			
	• David Weinflash (MS, Computer Science, UCSB)			

Teaching

 Introduction to Computer Networks (CMPSC 176A) 	Spring 2019
• Computer Networking (CMPSC 176B)	Winter 2019
• Introduction to Computer Networks (CMPSC 176A)	Fall 2018
• Introduction to Computer Networks (CMPSC 176A)	Spring 2018
• Computer Networking (CMPSC 176B)	Winter 2018
• Introduction to Computer Networks (CMPSC 176A)	Fall 2017
• Advanced Topics in Internet Computing (CMPSC 176C)	Spring 2017