

# Vivek Kaushal

**GITHUB** @kaushalvivek   **LINKEDIN** /vivekkaushal1998   **WEBSITE** vivekkaushal.com   **EMAIL** vivek.kaushal@research.iiit.ac.in

Education	<b>IIIT, Hyderabad</b>	2016-2021
	B.TECH WITH MS IN COMPUTER SCIENCE AND ENGINEERING	
	Bachelor of Technology in Computer Science and Engineering with a Masters by Research. CGPA : 7.96	
	<b>St.Michael's High School</b>	2006-2016
	HIGH SCHOOL DIPLOMA	
	High School Diploma in Sciences and Information Practices with 95.6%.	
Interests	Research: Decision Making • Behavioral Economics • Artificial Intelligence Academics: Usability Engineering • Machine Learning • Game Theory • Software Engineering Development: Shell Scripting • Full Stack and Mobile Development • Automation • Augmented Reality	
Experience	<b>National Taiwan University, Taipei</b>	May, 2019 - July, 2019
	RESEARCH ASSISTANT	
	Worked under Professor Hendrik Rommewinkel on a study to assess consumers' freedom of choice in US markets using a large database of transactions across years of consumer expenditure. I devised and coded a large number of statistical models in R for big data analysis on the mentioned database.	
	<b>Cognitive Sciences Lab, IIIT-H</b>	August, 2017 - Present
	UNDERGRADUATE RESEARCHER	
	Worked on experiments in the field of Risk and Decision Making under Dr.Kavita Vemuri. Presented results for of an experimental setup exploring Risk Propensity at the FUR Conference, University of York in June, 2018. Currently exploring further concepts in financial risk taking and neuroeconomics.	
	<b>T-Hub</b>	January, 2018 - February, 2019
	INFORMATION RESEARCH INTERN	
	T-Hub is Asia's largest start-up incubator. Worked closely with T-Hub start-ups to write research papers on topics in technology for in-house circulation and publication for the start-up community. Topics varied from cross-domain market opportunities to deconstruction of implemented strategies.	
	<b>DreamVu Inc.</b>	August, 2019 - Present
	MARKET RESEARCH ASSOCIATE	
	Worked on strategies for market entry and disruption in the B2B segment of the robotics and computer vision industry. Reported directly to the COO with research insights and gauged opportunities for product sale, enhancement and use cases for market disruption.	
	<b>IIIT Hyderabad</b>	August, 2018 - April, 2019
	TEACHING ASSISTANT	
	Accepted as a Teaching Assistant for the courses : Structured System Analysis and Design under Dr.Raghu Reddy for Monsoon, 2018, and Engineering Systems under Dr. KS Rajan for Spring, 2019. Workload involved teaching students, designing and grading assignments while also mentoring projects.	
	<b>Entrepreneurship Cell, IIIT-H</b>	August, 2016 - April, 2019
	OVERALL HEAD	
	Structured and curated a multi-tiered team of 30+ individuals. Launched multiple initiatives and established long-term collaborations with corporate institutions. Headed India's largest student-organized Hackathon - Megathon, ensured exponential growth, established a well-respected brand in three years.	
	<b>Wowsome</b>	January, 2017 - April, 2017
	AUGMENTED REALITY INTERN	
	Worked with Vuforia in Unity3D for development of production scale Augmented Reality Applications. Coded the application in C# using Unity3D with backend integration to Amazon Web Servers.	

Conferences	<b>Foundation of Utility and Risk, 2018</b> UNIVERSITY OF YORK Among the youngest presenters at the Foundation of Utility and Risk Conference in York, 2018. Presented a poster on Risk Propensity and its correlation with academic performance, net-worth and brand loyalty. A web-based game-like simulator was created to gauge financial decision-making. Publication Link : <a href="http://web2py.iit.ac.in/research_centres/publications/view_publication/inproceedings/1541">http://web2py.iit.ac.in/research_centres/publications/view_publication/inproceedings/1541</a>	June, 2018
Major Projects	<b>Consumer Freedom Measure</b> BIG DATA ANALYSIS USING R Assisted the development of a data analysis codebase in R to draw inferences on a large-scale consumer behavior database that tracked 60,000+ US families' expenditure on goods over a period of 14 years. Besides development on the codebase, studied practical trends in data sciences and applied statistics.	2019
	<b>AI Bot</b> ARTIFICIAL INTELLIGENCE IN GAMES An artificial intelligent agent was coded using custom heuristics and Alpha-Beta pruning on mini-max decision trees to play Ultimate-Tic-Tac-Toe. The bot transversed decision trees and played moves that were best suited at a given point in the game as per the devised optimization algorithm.	2018
	<b>Interactive Wall</b> AUGMENTED REALITY BASED ADVERTISING A standalone advertising platform was built for interactive real-world advertising. Support for android and iOS based devices was provided for interactive advertising using visual data-points parsed by Vuforia engine in Unity3D. Presently used by 20+ consumer focused companies.	2017
	<b>Terminal Shell</b> C/C++ BASED DEVELOPMENT A custom terminal shell was coded in C++ based on the POSIX architecture with integrated syscalls. All common shell commands were had native support with syscalls used for less commonly used commands. An in-depth understanding of computer system architecture was gained in the process.	2017
	<b>Custom SQL Engine</b> PYTHON BASED DEVELOPMENT A custom SQL Engine was coded in Python to replicate the functionality of MySQL with support for complex data queries given a database structure. The Project was done for the credited Database Systems course under Dr. PK Reddy.	2018
Programming Skills	Day to Day: Python, JavaScript, Shell, Dart Familiar: R, MySQL, C/C++, C#, Java, Django, CSS, Unity3D, React, Flutter Operating Systems: OS X, Linux	
Relevant Courses	Research Specific: Artificial Intelligence   Machine Learning   Game Design   Cognitive Neuroscience Systems: Database Systems   Software Engineering   Engineering Systems Foundation: Data Structures   Structured System Analysis and Design   Digital Logic	
Achievements	Dean's Merit List for Research, IIIT Hyderabad 99.94 Percentile in JEE (Rank 994) National Talent Search Scholarship, Government of India Bronze Medallist at Regional Mathematics Olympiad	2018 2016 2015 2016
Positions Held	Overall Head at Entrepreneurship Cell, IIIT-H Teaching Assistant, IIIT-H Member of Student Parliament, IIIT-H Treasurer at IIIT Toastmasters' Club Lead Organizer at Megathon Coordinator, Music Club IIIT-H School Captain Founder and Editor-in-Chief, School Newsletter	2017-2019 2018-2019 2016-2018 2017-2018 2016, 2017, 2018 2016-2017 2015-2016 2015-2016
Volunteer Work	Event Volunteer at TEDx, Hyderabad Member at Tarumitra (UN recognized Environmental Conservation Body)	2016 2014-2016