

Vivek Kaushal

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Education	IIIT, Hyderabad B.TECH WITH MS IN COMPUTER SCIENCE AND ENGINEERING CGPA : 7.96 Merit List for Academic Excellence, 2019 Dean's List for Research, 2018	2016-2021
Experience	National Taiwan University, Taipei RESEARCH ASSISTANT - BIG DATA ANALYSIS Worked under Professor Hendrik Rommeswinkel 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. Cognitive Sciences Lab, IIIT-H UNDERGRADUATE RESEARCHER Working in the field of Financial Risk Taking and Human Computer Interaction under Dr. Kavita Vemuri. Presented work at multiple conferences -- listed below. Currently working on the integration of low income rural Indian families into the organised banking sector through technology-based solutions. T-Hub INFORMATION RESEARCH INTERN Worked closely with T-Hub start-ups to write papers on topics in technology for in-house circulation and publication. Topics centered around domain specific market opportunities and data analysis. DreamVu Inc. MARKET RESEARCH INTERN Worked on strategies for market entry and disruption in the robotics and computer vision industry. Reported directly to the COO and CEO with research insights and gauged market synergies. IIIT Hyderabad 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. Wowsome AUGMENTED REALITY INTERN Worked with Vuforia in Unity3D for production scale Augmented Reality Applications. Built the platform from scratch in C# using Unity3D with backend integration to AWS. Two distinct projects : Sentinel - An AR based ticket checker; Interactive Wall - an innovative AR based advertising platform. Entrepreneurship Cell, IIIT-H 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.	May, 2019 - July, 2019 August, 2017 - Present January, 2018 - February, 2019 August, 2019 - Present August, 2018 - April, 2019 January, 2017 - April, 2017 August, 2016 - April, 2019
Research Work	Foundation of Utility and Risk Conference UNIVERSITY OF YORK, YORK, UK Poster presented on a pilot study of risk propensity and academic performance using a choice simulator. Sixth Annual Conference of the Association for Cognitive Sciences in India BITS PILANI GOA CAMPUS, GOA, INDIA Paper accepted on "Investigating Academic Performance and Financial Risk-Taking" -- poster presented. DOI : 10.13140/RG.2.2.19873.56160	June, 2018 December, 2019

Major Projects	Consumer Freedom Measure BIG DATA ANALYSIS USING R	2019
	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.	
	Financial Risk Behaviour Assessment BEHAVIOURAL ECONOMICS COGNITIVE SCIENCE	2018
	A web-based application was coded in native JavaScript for a comparative study of financial risk intelligence and academic performance. The application simulated real world choices and recorded responses in a game-like environment. Data collected was analysed and the results are under publication.	
	Click-bait and Advertisements HUMAN COMPUTER INTERACTION	2019
	Working with Dr. Prithwiraj Mukherjee, IIM Bangalore, on a study of user interaction with ads on click-bait articles. Tobii x120 eye-tracker and R used for experimentation and data analysis respectively. Handling experimentation and data analysis, with active contribution in experiment design.	
	Bowling Management System USABILITY ENGINEERING JAVA	2019
	Engineered usability into a large JAVA codebase to manage a bowling alley. Feature enhancement, user-focused changes, qualitative and score-based refactoring of the codebase was implemented. The project was taken up in a team of 3 for the Software Engineering coursework at IIIT Hyderabad.	
	Interactive Wall AUGMENTED REALITY BASED ADVERTISING	2017
	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.	
	Terminal Shell C/C++ BASED DEVELOPMENT	2017
	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.	
	Custom SQL Engine PYTHON BASED DEVELOPMENT	2018
	A custom SQL Engine was coded in Python to replicate the functionality of MySQL with support for complex data queries, completed for course requirements of Database Systems under Dr. PK Reddy.	
Skills	Day to Day: Python, JavaScript, Shell, Git, Tensorflow - Keras, Dart - Flutter Familiar: R, MySQL, MATLAB, C/C++, C#, Java, Django, CSS, Unity3D, React Operating Systems: OS X, Linux, Windows	
Relevant Courses	Research: Artificial Intelligence Research Methodologies Game Design Cognitive Neuroscience Systems: Database Systems Software Engineering Compilers Statistical Methods in AI Foundation: Data Structures Structured System Analysis and Design Engineering Systems	
Achievements	Merit List for Academic Excellence, IIIT Hyderabad	2019
	Dean's List for Research, IIIT Hyderabad	2018
	99.94 Percentile in JEE (Rank 992)	2016
	National Talent Search Scholarship, Government of India	2015
Positions Held	Overall Head at Entrepreneurship Cell, IIIT-H	2017-2019
	Teaching Assistant, IIIT-H	2018-2019
	Member of Student Parliament, IIIT-H	2016-2018
	Lead Organizer at Megathon	2017, 2018
	Coordinator, Music Club IIIT-H	2016-2017
	School Captain	2015-2016