

# Vivek Kaushal

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Education	<b>IIIT, Hyderabad</b> B.TECH WITH MS BY RESEARCH IN COMPUTER SCIENCE AND ENGINEERING CGPA : 8.05   Merit List for Academic Excellence, 2019   Dean's List for Research, 2018	2016-2021
Experience	<b>National Taiwan University, Taipei</b> 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.  <b>Cognitive Sciences Lab, IIIT-H</b> UNDERGRADUATE RESEARCHER  Working in the field of Human Computer Interaction under Dr. Kavita Vemuri. Presented work at multiple conferences -- listed below. Currently working on click bait and online media to enhance quality of journalism - using attentional models and natural language processing.  <b>IIIT Hyderabad</b> TEACHING ASSISTANT  Accepted as a Teaching Assistant for the courses : Software Engineering under Dr. Vasudeva Verma for Spring, 2020, Structured System Analysis and Design under Dr. Raghu Reddy for Monsoon, 2018, and Engineering Systems under Dr. KS Rajan for Spring, 2019.  <b>Indus Soft Business LLP</b> SOFTWARE ENGINEER - PART TIME  Leading a team of software developers and engineering cross-platform solutions for multiple clients across a broad spectrum of industries. Clientele includes financial risk analysis firms among others.  <b>Wowsome Inc.</b> 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.  <b>T-Hub</b> 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.  <b>Entrepreneurship Cell, IIIT-H</b> 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>DreamVu Inc.</b> 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.	May, 2019 - July, 2019  August, 2017 - Present  August, 2018 - Present  January, 2020 - Present  January, 2017 - April, 2017  January, 2018 - February, 2019  August, 2016 - April, 2019  August, 2019 - December, 2019
Research Work	<b>Foundation of Utility and Risk Conference</b> UNIVERSITY OF YORK, YORK, UK  Poster presented on a pilot study of risk propensity and academic performance using a choice simulator.	June, 2018

Paper accepted on "Investigating Academic Performance and Financial Risk-Taking" -- poster presented.  
DOI : 10.13140/RG.2.2.19873.56160

## Major Projects

**Consumer Freedom Measure** 2019  
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.

**Click-bait and Advertisements** 2019  
HUMAN COMPUTER INTERACTION | EYE-TRACKING

Worked with Dr. Prithwiraj Mukherjee, IIM Bangalore, on a study of user interaction with ads on click-bait articles. Tobii x120 eye-tracker and python used for experimentation and data analysis respectively. Handled experimentation and data analysis, with active contribution in experiment design.

**Financial Risk Behaviour Assessment** 2018  
BEHAVIOURAL ECONOMICS | COGNITIVE SCIENCE

A web-app was coded 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 published at 6th ACCS, 2019 - BITS Pilani, Goa Campus.

**3D Animation Action Recognition** 2019  
COMPUTER ANIMATION | DATA ANALYSIS

Extensive data analysis done on a collected dataset to test whether it's easier to identify 3D avatar based action renders as compared to 3D skeleton based action renders. Study has applications in computing resource conservation and assessment of difficulty in action recognition.

**Interactive Wall** 2017  
AR/VR | UNITY3D

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.

**Expenses Tracker App** 2019  
IOS/ANDROID DEVELOPMENT | FLUTTER

An expense tracker app built in Flutter using Dart to provide cross platform support for both iOS and Android devices. Functionality includes adding, removing, editing and visualizing expenses.

**Terminal Shell** 2017  
C/C++ BASED DEVELOPMENT

A custom terminal shell was coded in C++ based on the POSIX architecture with integrated syscalls. An in-depth understanding of computer system architecture was gained in the process.

## Skills

Day to Day: Python, JavaScript, Shell, Git, PyTorch, Dart - Flutter, Flask  
Familiar: R, Tensorflow, MySQL, MATLAB, C/C++, C#, Java, Django, CSS, Unity3D, React  
Operating Systems: OS X, Linux

## 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 2018-2020  
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