Vivek Kaushal

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

Education	**IIIT, Hyderabad**	2016-2021

IIIT, Hyderabad — 2016-2021
B.TECH WITH MS BY RESEARCH IN COMPUTER SCIENCE AND ENGINEERING

CGPA : 8.27 | Merit List for Academic Excellence, 2019 | Dean's List for Research, 2018

Experience

National Taiwan University, Taipei — May, 2019 - July, 2019
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 — August, 2017 - Present
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.

IIIT Hyderabad — August, 2018 - Present
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.

Indus Soft Business LLP — January, 2020 - Present
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.

Wowsome Inc. — January, 2017 - April, 2017
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.

T-Hub — January, 2018 - February, 2019
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.

Entrepreneurship Cell, IIIT-H — 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.

DreamVu Inc. — August, 2019 - December, 2019
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.

Research Work

Foundation of Utility and Risk Conference — June, 2018
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 December, 2019
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

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.

Train Escort Check 2020
PYTHON | FULL-STACK| COVID-19

Built an application for the Indian Railways to keep track of police escorts in Shramik Special Trains. Application deployed and used by thousands of Indian Railways employees throughout the course of running special trains to deal with the COVID-19 pandemic.

VoIP based Interview Automation System 2020
PYTHON | FLASK | TWILIO | ASTERISK

Built a VoIP based calling and interview automation system using Python and Flask for the micro-service and connecting to Twilio for accessing the calling API. Connected the project to a custom Asterisk server. Project done on a freelance basis for a US-based risk management corporation.

Interactive Wall 2017
AR/VR | UNITY3D

A standalone cross-platform advertising platform built for interactive advertising. Application used visual data-points parsed by Vuforia engine in Unity3D. Deployed by 20+ consumer focused companies.

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, MERN Stack, React, React Native, Flask
Familiar: R, PyTorch, MySQL, MATLAB, C/C++, C#, Java, Django, CSS, Unity3D, Flutter
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