

# Vivek Kaushal

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Education	<b>IIIT, Hyderabad</b> 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	2016-2021
Experience	<b>couture.ai</b> AI PLATFORM ENGINEER   MLOPS - INTERNSHIP Worked on the development and deployment of a platform to provide an intuitive GUI and development pipeline to machine learning engineers. Worked with MLFlow, TFServing, Airflow, Docker among others.	July, 2020 - Present
	<b>Government of Delhi, India</b> PLATFORM DEVELOPER - COVID-19 CONTAINMENT TRACKER Developed a platform from scratch to geocode COVID-19 cases and automate the process of containment zone creation using k-means clustering. Project deployed successfully in South Delhi district.	June, 2020 - July, 2020
	<b>National Taiwan University, Taipei</b> RESEARCH ASSISTANT - BIG DATA ANALYSIS Worked under Professor Hendrik Rommeswinkel to assess consumers' freedom of choice in US markets using a database of years of consumer expenditure. Devised and coded statistical models in R.	May, 2019 - July, 2019
	<b>Indus Soft Business LLP</b> SOFTWARE ENGINEER - PART TIME Built and led a team of engineers to develop cross-platform solutions across a broad spectrum of industries. Projects included a VoIP-based Interview Automation System, .	January, 2020 - June, 2020
	<b>Wowsome Inc.</b> AUGMENTED REALITY INTERN Built production scale apps from scratch in C# using Unity3D and Vuforia with AWS integration. Projects : Sentinel - An AR based ticket checker; Interactive Wall - an innovative AR based advertising platform.	January, 2017 - April, 2017
	<b>T-Hub</b> 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.	January, 2018 - February, 2019
	<b>DreamVu Inc.</b> 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.	August, 2019 - December, 2019
Research Work	<b>Cognitive Sciences Lab, IIIT-H</b> UNDERGRADUATE RESEARCHER Working in the field of Human Computer Interaction under Dr. Kavita Vemuri. Currently working on clickbait, curiosity and online media to improve the quality of online journalism for end-users.	August, 2017 - Present
	<b>IIIT Hyderabad</b> TEACHING ASSISTANT Software Engineering (Dr.Vasudeva Verma, Spring'20), SSA&D (Dr.Raghu Reddy, Monsoon'18), Engineering Systems (Dr. KS Rajan, Spring'19), Critical Viewing & Reading (Dr.Sushmita Banerjee, Monsoon'20)	August, 2018 - Present
	<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

**One-Click Deployment - Custom mlflow** 2020  
AI PLATFORM | MLOPS

Created a one-click deployment mechanism for Tensorflow and PyTorch models in mlflow where users can upload their models and create production deployments on remote docker containers/kubernetes cluster of TF-Serving and Torch-Serve respectively with the click of a single button.

**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.

**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, Flask, Heroku, Jupyter, Docker  
Familiar: R, PyTorch, MySQL, MATLAB, C/C++, C#, Java, Django, Unity3D, Flutter, React Native  
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