Vivek Kaushal

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Education		
	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

CoutureAI   July, 2020 - Present
AI PLATFORM ENGINEER - INTERNSHIP

Worked on the development and deployment of a platform to provide an intuitive GUI and development pipeline to machine learning engineers. Worked with Apache Spark, Airflow, Docker and Kuberentes.

Government of Delhi, India   June, 2020 - July, 2020
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.

National Taiwan University, Taipei   May, 2019 - July, 2019
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.

Indus Soft Business LLP   January, 2020 - June, 2020
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

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.

T-Hub   January, 2018 - February, 2019
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.   August, 2019 - December, 2019
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.

Cognitive Sciences Lab, IIIT-H   August, 2017 - Present
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.

IIIT Hyderabad   August, 2018 - Present
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)

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.

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, Flask, Heroku, Jupyter
Familiar: R, PyTorch, MySQL, MATLAB, C/C++, C#, Java, Django, CSS, 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