

Vivek Talwar

Hyderabad, Telangana, India
vivektalwar@research.iiit.ac.in | vivektalwar13071999@gmail.com
Webpage : vivektalwar13071999.github.io
Github : github.com/vivektalwar13071999
+91-955-815-6180

EDUCATION	International Institute of Information Technology Hyderabad , Telangana, India <i>Master of Science</i> , Computer Science and Engineering, <i>Jul' 20 - Jul' 23 (Expected)</i>
	Institute of Technology, Nirma University , Ahmedabad, India <i>Bachelor of Technology</i> , Electronics and Communications Engineering, <i>Jul' 16 - Jul' 20</i> GPA: 7.16/10 (Overall)

RESEARCH INTERESTS	Deep Learning, Natural Language Processing, Computer Vision, Optimization Methods
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PUBLICATIONS	Likith Reddy, Vivek Talwar , Shanmukh Alle, Deva Priyakumar, Bapi Raju , "IMLE-Net: An Interpretable Multi-level Multi-channel Model for ECG Classification" <i>IEEE International Conference on Systems, Man, and Cybernetics</i> (SMC), Melbourne, Australia
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WORK EXPERIENCE	International Institute of Information Technology Hyderabad , Telangana, India Research Intern, Healthcare and Artificial Intelligence Center Researcher working in cohort of Applied AI for Healthcare domain under Intel Applied AI Center(INAI) initiative in collaboration with I-Hub Data. <i>Jul' 20 - Jul' 21 (Expected)</i>
	Merkle, Pune Maharashtra, India Business Intelligence Intern, Reinforcement Learning in Digital Advertisement Industry: The project deals with study of how reinforcement learning is used to optimize click-through rate and auction rates of demand and supply side platforms in the advertisement industry. <i>Jan' 20 - Jul' 20</i>

AWARDS & ACHIEVEMENTS	Awarded the IIIT-H Research Fellowship for Masters(By Research) Programme National Winner , Tata Crucible Open Innovation Hackathon, 2018
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PROJECTS	Covid Cough Detector Worked on a Flask based cough sample analysis web-application which detects Covid-19 virus for the Microsoft Champions League Hackathon where by collecting a ten second audio recording of a person's cough we were able to extract Chroma based features and Mel Cepstral Coefficients for doing a binary classification by using a Multi-Layer Perceptron and ConvNets on IISC "Co-Swara" Dataset. Machine Learning on RaspberryPi with Training Model on Amazon Web Services By running MXNet for predictions on the Raspberry Pi 3B+ Model and connecting it to the AWS Cloud with AWS IoT for training. The system doesn't rely on a constant high-bandwidth connection to stream video or expensive GPU servers in the cloud to process a video. In fact, by using AWS and MXNet on the Pi, we created a much more reliable and cost-effective smart camera system for object-recognition, object-detection and face-recognition related tasks.
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SKILLS

Languages: C++, Python

Frameworks: Tensorflow, Pytorch, Keras

Libraries: Pandas, Matplotlib, Scikit-Learn, Numpy

Web Development: Django, Flask

Cloud Computing: Microsoft Azure, AWS

CERTIFICATES

Machine Learning, Stanford University, Coursera

Neural Networks and Deep Learning, Deeplearning.ai, Coursera