

Viral Parekh

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EDUCATION

IIIT-HYDERABAD

MS BY RESEARCH

Expected Dec 2017 | Hyderabad

CGPA: 8.67 / 10

NIRMA UNIVERSITY

B.TECH. IN COMPUTER SCIENCE

Completed May 2013 | Ahmedabad

CGPA: 8.21 / 10

LINKS

Github:// viralparekh

LinkedIn:// vparekh1

Twitter:// viralmparekh

Quora:// viral-parekh

COURSEWORK

GRADUATE

Machine Learning

Computer Vision

Optimization Methods

Digital Image Processing

Statistical Methods in Artificial

Intelligence

SKILLS

PROGRAMMING

Over 10000 lines:

Python • C++ • Matlab • Java

Over 5000 lines:

C • HTML

Familiar:

CSS • javascript • Lua

Machine Learning libraries

Pytorch • Tensorflow • Caffe

Hardware Interaction

Raspberry Pi • Kinect

PERSONAL DETAILS

Date of Birth : 17th Jan, 1992

Gender : Male

Languages : English, Hindi, Gujarati

Hobbies : Playing Guitar, Poetry writing, Traveling

EXPERIENCE

IIIT-HYDERABAD | RESEARCH ASSISTANT

Jan 2016 – Current | Hyd

- Research Assistant at Center for Visual Information Technology (CVIT) under the guidance of Prof. C. V. Jawahar and Dr Ramanathan Subramanian.
- Admin of a GPU Cluster (Nvidia GeForce GTX Titan X, 1080 Ti)

SAMSUNG R&D INSTITUTE INDIA | SOFTWARE ENGINEER

Jun 2013 – July 2015 | Noida

- Worked on Android Telephony Framework and Radio Interface Layer(RIL) for flagship models like Galaxy S5, S6 and Note 4.

SAMSUNG R&D INSTITUTE INDIA | INTERN

December 2012 – May 2013 | Noida

AZOI INC | RESEARCH INTERN

May 2012 – July 2012 | Ahmedabad

- Developed a prototype to demonstrate the working of grid navigation user interface using Kinect and implemented a 'channel finder' application for Android smart TV.

SELECTED PROJECTS

EYE CONTACT DETECTION VIA DEEP NEURAL NETWORK [4]

July 2016 – Dec 2016 | IIIT-Hyderabad

Developed an eye contact detection system using convolutional neural network (CNN) architecture, we achieved superior performance as compared to state of the art methods with minimal data pre-processing.

IMAGE ANNOTATION WITH BRAIN SIGNALS [3]

Jan 2017 – Mar 2017 | IIIT-Hyderabad

Image annotation using classification of EEG (Electroencephalogram) signals.

ACCOMPLISHMENTS

- Built Android applications with over 3 lac downloads on Play-store
- State topper GUJ-CET 2009 (Rank-1)
- Reviewer of the book "Android Application Programming with OpenCV" (ISBN-10: 1849695202)

PUBLICATIONS

- [1] P. Foong, V. Parekh, R. Subramanian, and Z. Shen. An automatic video system for measuring engagement in dementia. IUI (Under Review), 2018.
- [2] V. Parekh, M. Bilalpur, C. V. Jawahar, and R. Subramanian. Investigating the generalizability of eeg-based cognitive load estimation across visualizations. CHI (Under Review), 2018.
- [3] V. Parekh and C. V. Jawahar. A fast image annotation system using eeg signals. NCVPRIPG, 2017.
- [4] V. Parekh, R. Subramanian, and C. V. Jawahar. Eye contact detection via deep neural networks. In HCI International, pages 366–374. Springer, 2017.