Viral Parekh

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EDUCATION

IIIT-HYDERABAD
MS By Research
Expected Dec 2017 | Hyderabad
CGPA: 8.67 / 10.0

NIRMA UNIVERSITY
B.Tech. in Computer Science
Completed May 2013 | Ahmedabad
CGPA: 8.20 / 10.0

LINKS

Github:// **viralparekh**
LinkedIn:// **vparekh1**
Twitter:// **viralmparekh**
Quora:// **Viral-Parekh**

COURSEWORK

GRADUATE
Machine Learning
Computer Vision
Optimization Methods
Image Processing
Statical 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 • Torch • Keras • Sci-Kit Learn
Hardware Interaction
Raspberry Pi • Kinect

PERSONAL DETAILS

Date of Birth : 17^{th} Jan, 1992
Gender : Male
Languages : English, Hindi, Gujarati
Hobbies : Playing Guitar, Poetry writing, Traveling

EXPERIENCE

IIIT-HYDERABAD | Research Assistant
Jan 2016 – Current | Hyd
- Working as a 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 (12 Nvidia TitenX, Nvidia Tesla K40)

SAMSUNG R&D INSTITUTE INDIA | Software Engineer
Jun 2013 – July 2015 | Noida

- Worked on Android Telephony Framework, Radio Interface Layer(RIL) , IMS Interface Layer for flagship models like Galaxy S5, S6 and Note 4
- Worked on-site on various flagship projects of Samsung for U.S. Cellular and Sprint

SAMSUNG R&D INSTITUTE INDIA | Intern
December 2012 – May 2013 | Noida

- Made prototypes of Android applications and worked on Android Telephony Framework.

AZOI INC | Research Intern
May 2012 – July 2012 | Ahmedabad
- Implemented a channel finder application in OpenCV.
- Developed a prototype to demonstrate the working of grid navigation User Interface using Kinect.

SELECTED PROJECTS

IMAGE ANNOTATION WITH BRAIN SIGNALS
Jan 2016 – Mar 2017 | IIIT-Hyderabad
Image annotation using classification of EEG (Electroencephalogram) data collected during Rapid Serial Visual Representation. Image displayed at 10Hz and Classification accuracy of 75% was achieved for Caltech 101 dataset.

EYE CONTACT DETECTION VIA DEEP NEURAL NETWORK [1]
July 2016 – Dec 2016 | IIIT-Hyderabad
Developed eye contact detection using deep neural networks with a convolutional neural network (CNN) architecture, we achieve superior eye-contact detection performance as compared to state of the art methods with minimal data pre-processing.

GESTURE REORGANIZATION FOR SPECIALLY ABLED PEOPLE
May 2012 – July 2012 | Nirma University, Ahmedabad
A gesture recognition system for specially abled people to help them to interact efficiently. System contains predefined set of gestures. On recognition of particular gesture a callback is generated and voice clip associated with gesture is played.

PUBLICATIONS

References

[1] V. Parekh, R. Subramanian, and C. V. Jawahar. Eye contact detection via deep neural network. HCI International, 2017.