

Viral Parekh

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RESEARCH INTERESTS Machine Learning, Deep Computer Vision, and Human-Computer Interaction

EDUCATION **International Institute of Information Technology**, Hyderabad, India
Master of Science, Computer Science and Engineering, July 2015 - July 2018
CGPA: 8.67/10
Thesis advisors: **Prof. C. V. Jawahar** and **Dr. Ramanathan Subramanian**
Research area : Computer vision, machine learning and Human-Computer Interaction
Research lab: Center for Visual Information Technology

Nirma University, Ahmedabad, India
Bachelor Of Technology, Computer Science and Engineering, June 2009 - June 2013
CGPA: 8.2/10

PROFESSIONAL ACTIVITIES **Systems Administrator:** CVIT-HPC cluster operating on SLURM
Lab coordinator at Summer school On Deep Learning 2017, CVIT, IIIT Hyderabad
Volunteer at Summer school On Deep Learning 2016, CVIT, IIIT Hyderabad
Student Placement Coordinator Nirma University, (2012-2013)

EXPERIENCE **Flipkart**, Bangalore, India
Data Scientist July 2018 - Present
Working with Catalog team for building Machine Learning based solutions to automate quality and compliance checks on seller data as well as product image enhancement.

Goldman Sachs, Bangalore, India
Intern Analyst January 2018 - May 2018
Worked on automation of IG board origination.

Samsung Research Institute, Noida, India
Software Engineer June 2013 - July 2015
Intern December 2012 - May 2013
Worked on Android Telephony Framework and Radio Interface Layer(RIL) for flagship models like Galaxy S5, S6 and Note 4 as well as prototyping of Android applications.

Azoi, Ahmedabad, India
Research Intern April 2012 - May 2012
Developed a prototype to demonstrate the working of grid navigation user interface using Kinect and implemented a 'channel finder' application for Android smart TV.

PUBLICATIONS **AVEID: Automatic Video System for Measuring Engagement In Dementia**
IUI 2018 [<https://doi.org/10.1145/3172944.3173010>]
Viral Parekh*, Pin Foong *, Shen Zhao and Ramanathan Subramanian
(*-indicates equal contribution)

An EEG-based Image Annotation System,
NCVPRIPG 2017 [Best poster award] [<http://doi.org/10.1007/978-981-13-0020-2>]
Viral Parekh, Ramanathan Subramanian, Dipanjan Roy and C. V. Jawahar

Eye Contact Detection via Deep Neural Networks
HCI International 2017 [http://doi.org/10.1007/978-3-319-58750-9_51]
Viral Parekh, Ramanathan Subramanian and C. V. Jawahar

Investigating the Generalizability of EEG-based Cognitive Load Estimation Across Visualizations
ICMI 2018 [<http://doi.acm.org/10.1145/3281151.3281160>]
Viral Parekh, Maneesh Bilalpur, Shravan Kumar, Stefan Winkler, C.V. Jawahar and Ramanathan Subramanian

**SKILLS
& TOOLS**

Languages: Python, JAVA, C++, C, MATLAB
ML & Vision: Keras, Pytorch, Tensorflow, Scikit-learn, Caffe
Web & Mobile: Android, Web2py, HTML, Javascript, Flask
Hardware: Raspberry Pi, Kinect

**SELECTED
PROJECTS**

AVEID: Automatic Video System for Measuring Engagement In Dementia,
June 2017 - September 2017 | IIIT Hyderabad
AVEID, a low cost and easy to use video-based engagement measurement tool to determine the level of engagement of a person with dementia using deep learning based Face detection, Gaze detection and Emotion recognition modules.

Image annotation with Brain signals,
May 2016 - July 2016 | IIIT Hyderabad
Image annotation using classification of EEG (Electroencephalogram) signals. Image annotation throughput of 10Hz with F1 score 0.88 was reported on Caltech101 and Pascal VOC datasets.

**AWARD &
ACHIEVE-
MENTS**

Best poster award at NCVPRIPG 2017 conference.
Built Android applications with over 3 lac downloads on Play-store
State topper GUJ-CET 2009 (Rank-1)
Finalist in International Astronomical Congress 2007, students competition held by Indian Space Research Organization (ISRO)

**RELEVANT
COURSEWORK**

Machine Learning
Computer Vision
Optimization Methods
Digital Image Processing
Statistical Methods in Artificial Intelligence