

# Jayneel Vora

Computer Engineering Student.

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## COMPUTATIONAL SKILLS

Programming Languages:

- C,C++,Java, **Python**, **R**,SQL,C#(beginner),**Shell Scripting**,
- **ENVI-IDL**, **Matlab**, HTML5, CSS, JavaScript.

Technologies well versed with:

- Azure,Machine Learning,Computational Neuroscience,Hyperspectral Image Processing(Remote Sensing-GIS), Android App Development, AWS, Deep Learning
- Fog Computing,Natural Language Processing,GPU Processing, DBMS.

## Publications

### International Conferences:

1. Tanwar S, **Vora J**, Kaneriya S & Tyagi S, "Fog based Enhanced Safety Management System for Miners", 3rd International Conference on Advances in Computing, Communication & Automation, (ICACCA-2017), Tula Institute, Dehradun, UA. (**Presented**, and will be Indexed in IEEE-Xplore, SCOPUS)
2. M. Gor, **Vora J**, S. Tanwar, S. Tyagi, N. Kumar, M. S. Obaidat & B. Sadoun, "GATA: GPS-Arduino Based Tracking and Alarm System for Protection of Wildlife Animals", International Conference on Computer, Information and Telecommunication Systems (IEEE CITS-2017), Dalian University, Dalian, China, 21-23 July 2017, pp. 166-170. (Indexed in IEEE-Xplore, SCOPUS)
3. **Vora J**, Tanwar S, Tyagi S, Kumar N & Rodrigues J P C, "FAAL: Fog Computing- based Patient Monitoring System for Ambient Assisted Living", IEEE 19th International Conference on e-Health Networking, Applications and Services (Healthcom-2017), Dalian University, Dalian, China, 12-15 October 2017, pp. 106.(Indexed in IEEE-Xplore, SCOPUS)
4. **Vora J**, Tanwar S, Tyagi S, Kumar N & Rodrigues J P C, "Home-based Exercise System for Patients Using IoT Enabled Smart Speaker", IEEE 19th International Conference on e-Health Networking, Applications and Services (Healthcom-2017), Dalian University, Dalian, China, 12-15 October 2017, pp. 1-6.(Indexed in IEEE-Xplore, SCOPUS)
5. **Vora J**, Kaneriya S, Tanwar S, Tyagi S, "Performance Evaluation of SDN based Virtualization for Data Center Networks", IEEE 3rd International Conference on Internet of Things: Smart Innovation and Usages (IoT-SIU 2018), BIAS,Bhimtal, Nainital, Uttarakhand, India, 23-24 February, 2018 (Presented and will be Indexed in IEEE-Xplore)
6. **Vora J**, Patel M, Tanwar S, Tyagi S, "Image Processing Based Analysis of Cracks on Vertical Walls", IEEE 3rd International Conference on Internet of Things: Smart Innovation and Usages (IoT-SIU 2018), BIAS,Bhimtal, Nainital, Uttarakhand, India, 23-24 February, 2018 (**Presented** and will be Indexed in IEEE-Xplore)
7. **Vora J**, Zaveri T,Shah D, Shah P," Comparison of K-Means and LDA for soil classification using coastal Hyperspectral Data", 38th annual symposium:IEEE Geoscience and Remote Sensing Society (GRSS) 2018, 23-27 July 2018, Valencia, Spain(Communicated, to be indexed in IEEE-Xplore)
8. **Vora J**, Kaneriya S,:"Real-time Health and Medical Monitoring System Using Accelerometer with Body Area Network", Wireless Telecommunications Symposium",17-20 April 2018, Phoenix, USA(Accepted, to be indexed in IEEE-Xplore)

9. Kaneriya S, **Vora J**, Shah P, "Hidden Markov Model based Real-time Arthritis Patient Monitoring System Using Wireless Body Area Networks, Fog Computing and Infrared Thermography", "2018 IEEE International Conference on Communications Workshops (ICC Workshops): The 4th Workshop on Optical Wireless Communications (OWC)", 20-24 May 2018, Kansas City, USA (Communicated, to be indexed in IEEE-Xplore)
10. **Vora J**, Italiya P, Jadav M, Devmurari P, "A Study of Social Engineering Attacks", "12nd International Conference on Cryptography, Security and Privacy", 16-18 March 2018, Guiyang, China (Accepted, to be archived in ACM Digital Library)
11. Patni N, Shah P, **Vora J**, Shah V, "Automation of process evaluation of Saccharification of wheat starch followed by fermentation of glucose to prepare Bioethanol using Digital Image Processing", "Information and Communication Technology for Intelligent Systems", ICTIS 2018, Ahmedabad, India (Accepted for Oral Presentation, to be indexed on SpringerLink, Scopus indexed)

#### **International Journals:**

1. Tanwar S, **Vora J**, Tyagi S, Kumar N, "Attacks on Security Services in Vehicular Ad Hoc Networks: Opportunities and Challenges", Security and Privacy Journal (Communicated)
2. Tanwar S, **Vora J**, Kaneriya S, Tyagi S, Kumar N, Sharma V, You I, "Human Arthritis Analysis in Fog Computing Environment using Bayesian Network Classifier and Thread Protocol", IEEE Communications Magazine (**Impact Factor: 10.435**, Communicated)

#### **Internship Experience:**

1. Tech Intern; Sentinel Healthcare, USA. (May 2017-July 2017)

#### **Observerships:**

1. **Swedish Medical Centre**, Seattle, USA (July 2017)
2. **Johnson City Medical Hospital**, TN, USA (July 2017)
3. **Oasis Pavilion**, Arizona, USA (July 2017)
4. Institute Of Science, Nirma University (September 2017)
5. **Unipath Laboratory**, Ahmedabad, India (October 2017)

#### **Research Experience:**

1. **Crowd Motion Analysis, IIT-GN** (March 2017- May 2017)
2. **Integration of Fog Computing and IoT for monitoring Chronic Neurological patients.** (Jan 2017 - March 2017)
3. **Spectral Discrimination and Separability Analysis of Crops and Weeds, ISRO Funded** (Jan 2017 - May 2017)

## Projects

1. **Automatic Karyotyping Software**(September 2017- Ongoing)
2. **Hypertensive Retinopathy**(October 2017- December 2017)
3. **Traffic Light Manipulation For Emergency Services**(September 2017 - Ongoing)
4. **Information Extractor for Chatbots**(January 2017 - March 2017)
5. **GPU Processing Implementation** (January 2017-February 2017)
6. **Traffic Light\_Different Models Implementations**(Sep 2016 - Oct 2016)
7. **Study on Cyclic Redundancy Check**(Jul 2016 - Nov 2016)
8. **Admission Management System**(Sep 2016 - Nov 2016)

## Professional Experience

1. Founder, Edumasala.com: Online Exam Testing Portal.(June'15 to Jan'16)
2. Co-founder, Financia: An app promoting financial literacy among children(Feb'17- ).

## EDUCATION

### Institute Of Technology,Nirma University - AUGUST 2015- MAY 2019

- B.Tech. in Computer Engineering
- CGPA 7.35/10 .

### Udgam School For Children- *k-12*

- Scored 91% in 12th grade and 9.6/10 GPA in 10th grade.

## Campus Involvements

1. **Club Captain, MozillaNirma**(2017)
2. Event Coordinator, **Entrepreneurship Cell**,Nirma University.(2016-18)
3. Event Coordinator, Computer Society Of India, Nirma Chapter(2015-17)
4. Event Coordinator, Indian Society Of Technical Education, Nirma Chapter(2015-17)
5. Member, GPU Processing Group,Nirma University(2016-17)
6. Member, **IEEE SB**, Nirma University(2017-)

## Invited Talks

1. Guest Speaker, "Research Methodologies in the Field of Image Processing", addressed M.Tech-CE students at Nirma University,India on 3<sup>rd</sup> April 2017.