

VINIT TODAI

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EDUCATION:

K. J. Somaiya College of Engineering (KJSCE) | B. Tech. in Computer Engineering CGPA: 8.48/10 | Jun 2019
Courses: Data Structures, Algorithms, Artificial Intelligence, Machine Learning, Neural Networks and Fuzzy Logic, IOT

EXPERIENCE:

Barclays | Software Developer July 2019- Present

- Developed new APIs and functionalities for Online Corporate Banking System (iPortal) which offers various product and services to more than 200k users – Java, Spring, Hibernate, SQL
- Developed 'Assist' - a platform that connects task publishers and applicants and created capacity of 762+ hours with 130+ users at Barclays
- Participated in firm wide events – BX India Hackathon, AWS DeepRacer Challenge, and other CSR initiatives

RELEVANT PROJECTS :

Brain Controlled Wheelchair | KJSCE July 2018-June 2019

- Designed and implemented a Brain Controlled Wheelchair to assist people with mobility impairments
- Designed the Software to process Brainwaves and Eye blinks and turn them into commands and integrated with Raspberry Pi along with Obstacle Detection and avoidance using Tensorflow
- Applied for 3 provisional patents
- Hackathon Winner at MongoDB World Annual Conference in New York with 900+ participants from 22 countries
- Finalist at India Innovation Challenge Design Contest 2018(IICDC 2018) organized by Govt. of India with Texas Instruments and Indian Institute of Management, Bangalore (Top 30 out of 26,000+ participants)

Tools Used : EMOTIV EPOC+ and Neurosky Brainwave Headset, Tensorflow, Raspberry Pi, Android

AirMusic - Generate Music with your moves | Tensorflow World Hackathon Oct 2019 - Dec 2019

- Developed a real-time music generation system where the users dance moves creates music.
- Dance moves analyzed with a webcam and the human poses estimated using Posenet - Tensorflow deep learning model.

Tools Used : Posenet, Tensorflow, HTML, Javascript

GestureAssistant - Hand-Based Virtual Assistant | Global Pytorch Hackathon Aug 2019 - Sept 2019

- Desktop Personal Virtual Assistant which understands your gestures and turns them into powerful commands which will automate your Desktop without you pressing a key
- Commands include opening a website, Microsoft Word, or starting Music/Video player

Tools Used : Pytorch, Python

BrainPort - A VR Journey with your Brain | Facebook Developer Circles Community Challenge July 2019 - Sept 2019

- A EEG Headset(Brainwave Headset) used to record brainwaves and process it in real time using various algorithms. The user can train the headset to identify his brainwave pattern for upto 4 different places such as a Beach or a Mountain, or watch a Video or read news
- The output is then sent to a VR world where you can control things and teleport to new places by thinking.

Tools Used : EMOTIV EPOC+ Brainwave Headset, VR Headset, Pytorch, React360, NODE-RED

Brain Informatics using Deep Learning Sept 2016 - Dec 2016

- A EEG Headset(Brainwave Headset) used to record brainwaves and process it in real time using various algorithms.
- Classified the Workload on soldiers based on 3 categories (Baseline, Low Workload, High Workload) using various Machine Learning algorithms such as Resilient Backpropagation ANN, Stacked Auto encoders, Support Vector Machines, LDA and Radial Basis Function(RBFs)

Tools Used : R, R-Shiny

NLP Techniques for Information Extraction Sept 2016 - Dec 2016

- Developed a deep learning based automated system which can extract the most significant words from a set of paragraphs

Tools Used : python

SKILLS:

Programming: Java, Python, Android, TypeScript, C, C++, JavaScript, SQL

Frameworks/Tools: Git, TensorFlow, PyTorch, Angular, React, React360, SparkAR, Firebase, AWS, GCP, Jenkins, Openshift

Hardware: Raspberry pi, Arduino, CC2640(Texas Instruments)

LEADERSHIP:

Maker Relations Joint Officer | Maker Mela

Aug. 2016 – Jan. 2018

- Responsible for coordinating with global community of Makers and entrepreneurs
- Managed the event with 200+ innovators and 50,000+ visitors from across the World
- Contributed in construction of Biggest Cardboard Ship with 2 World Records attempts

Volunteer, Facebook Social HackDay

Dec 2017

- Creating Blood Donation Drives with 2,50,000+ people across India with an attempt at Guinness World Records

ACTIVITIES AND AWARDS:

- Keynote Speaker at MongoDB World Annual Conference organized in New York in June 2019
- Featured on the front page of Maharashtra times - one of the largest selling Newspapers in the country
- Regional Finalist, e-Yantra Ideas Competition organized by IIT Bombay and Govt. of India
- Finalist, Natarajan Education Society (NES) Innovation Awards(Top 50 out of thousands of projects)
- Winner at Hackathon 2.0 organized by VJTI Startup cell
- Best Project Award 2019, Dept. of Electronics Engineering, KJSCE
- Maker, Maker Mela 2019 - Asia's Biggest Innovator's gathering organized by RiiDL and supported by Department of Science and Technology, Govt. of India (Top 100 from thousands of participants)
- Runner – up, Ennovate - Innovation and Business Plan Competition organized by BloomBox, E-Cell KJSCE
- Participant - Prakalpa 2019 - State level technical paper presentation and project exhibition.
- 5th Place in AWS Deepracer League – A virtual self-driving car race utilizing Machine Learning organized at Barclays (200+participants)