



## MSR DINESH

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### OBJECTIVE

- I am passionate to build my career in the field of Artificial Intelligence and Data Science. I have a working knowledge in the fields of Computer Vision and Digital Signal Processing by applying various research papers. I am actively looking for internships that suit my skillset to gain industrial exposure.

### ACADEMIC DETAILS

| Qualification                                     | Institute                       | Year         | CPI/% |
|---|---------------------------------|--------------|-------|
| B.Tech, Electronics and Communication Engineering | IIT Bhubaneswar                 | 2016-present | 8.14  |
| Class-XII   | Sri Chaitanya, Vijayawada       | 2014-16      | 97.7  |
| Class-X   | Dr.KKR's Gowtham, Machilipatnam | 2014         | 9.8   |

### TECHNICAL SKILLS

- Programming Languages:** C, C++, Python
- Data Science Tools:** Jupyter Notebook, TensorFlow, Pytorch, Keras, Pandas, OpenCv, Numpy, Matplotlib
- Operating Systems:** Windows, Linux (Ubuntu)
- Softwares:** Matlab, Octave, Adobe Photoshop, MS Office, Git, LaTeX

### TECHNICAL PROJECTS

- Hand-Written Digit Recognition**  
(Machine Learning Course, Coursera, May'18 - Jun'18)
  - Applied various Machine Learning algorithms like SVM's, Convolutional Neural Networks on **MNIST** dataset containing **6000** images of handwritten digits to classify them and tested their accuracies using Keras with Tensorflow as backend in Python.
- Satellite Image Segmentation**  
(Problem Statement of Inter IIT Tech Meet, Jun'18 - July'18)
  - Trained a deep learning model on satellite imagery data of 14 images to classify each pixel into 8 different colours based on ground truth classes like vegetation, barren land, housing etc., using **Segnet** architecture using pre-trained weights of **VGG-16** in pytorch on google colab platform and obtained a test accuracy of **90** percent.
- Epilepsy, Seizure detection using EEG signals**  
(Guide: Prof. Brahma Deo, Aug'18 - Present)
  - The project is to detect the diseases **Epilepsy** and **Seizure** of a patient using his EEG signal by applying various algorithms like Convolutional Neural Networks, Extreme Learning Machines from various relevant research papers. The patient's data is collected from AIIMS, Bhubaneswar.
- Search Engine Optimization**  
(Microsoft AI challenge, Nov'18 - Present)
  - Presently I am working for the competition called **Microsoft AI challenge**. Given the query of the user, the task of the project is to predict the most relevant passage and assign the scores to passages based on the context.

### ACADEMIC ACHIEVEMENTS AND RESPONSIBILITIES

- Secured all India rank **3683** in the Joint Entrance Examination (IIT-JEE 2016).
- Sponsorship Core Head of **E-Summit**, the annual entrepreneurial conclave of IIT Bhubaneswar
- Awarded **Merit** Scholarship by IIT Bhubaneswar for 2 consecutive years.