

# PRIYAVRAT MISRA

Brahmapur, Odisha

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## EDUCATION

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### Parala Maharaja Engineering College

2017 – 2021

*Bachelor of Technology in Computer Science & Engineering (CGPA: 8.64)*

*Brahmapur, India*

#### Relevant Coursework:

- Data Structures & Algorithms
- Discrete Mathematics
- Computer Organization & Architecture
- Operating Systems
- Database Management Systems

## PROJECTS

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### Classification & Gradient-based Localization of Chest Radiographs

Apr 2021

- uses numerous concepts from Deep Learning to diagnose COVID-19 & other inflammatory lung diseases from frontal-view digital Chest X-Rays.

### Sci-fi Lorem

Jan 2021

- employs character-level language models (char-RNNs) to train an AI tool which can generate random and somewhat meaningful sci-fi word sequences.





### Image Colorization

Dec 2020

- uses Deep Residual Networks trained on Places365 dataset, to colorize black & white images.

### Other projects:

Nov 2020

- **Handwritten Digit Classification** : evaluates & benchmarks various types of Neural Networks on image data, using MNIST handwritten digits dataset as an example.
- **Neural Style Transfer** : uses CNN's feature extraction abilities to transfer style of an image to another.
- **Autoencoder for Image Compression** : reduces image size by up to 75% after compression, & achieves a near-lossless image quality after decompression.
- **Denoising Autoencoder** : constructs higher level representations of noisy images by identifying & utilizing useful features in them.

## INTERNSHIP

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### Indian Institute of Science Education and Research (IISER)

Feb - Mar 2020

*Intern* 

*Brahmapur, India*

- simulated *www.iiserbpr.ac.in* using Java, HTML, CSS, MySQL & Apache Tomcat, and gained an fundamental understanding of how websites work in general.
- assisted in developing the Human Resources module for their Enterprise Resource Planning software

## TECHNICAL SKILLS

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**Languages:** C/C++, Python, SQL, Java, HTML, CSS, MIPS Assembly

**Developer Tools:** Vim, GNU Compiler Collection (GCC), Windows Terminal, Windows Subsystem for Linux

**Technologies/Libraries:** Linux, Git, PyTorch, NumPy, Matplotlib, pandas

## CERTIFICATIONS

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- Deep Learning Nanodegree, *Udacity* 
- Python Programmer Track, *DataCamp* 
- Deep Learning Specialization, *Coursera* 
- AWS Fundamentals, *Coursera* 
- Machine Learning, *Coursera* 

## EXTRACURRICULAR

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- Received an Udacity Deep Learning Nanodegree scholarship for excellence among 15,000 participants. (2020)
- Secured Gold in a Quiz contest organized by Inspire Science Camp, Department of Science & Technology, Government of India. (2016)
- Won Silver Medal in National Science Olympiad 2014-15, School-level.
- Won Gold Medal in National Science Olympiad 2013-14, School-level & City-level.