

# PRIYAVRAT MISRA

<https://p-v.pages.dev/>

✉ priyavratmisra123@gmail.com ☎ +91 84804 42313

in [LinkedIn](#) GitHub

## EDUCATION

### Parala Maharaja Engineering College

*Bachelor of Technology in Computer Science & Engineering; GPA: 8.64*

2017 – 2021

*Brahmapur, India*

### Kendriya Vidyalaya

*Matriculation & Senior School*

2005 – 2017

*Brahmapur, India*

## PROJECTS

### 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.

## EXPERIENCE

### 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

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

**Libraries:** Standard Template Library (C++), PyTorch, NumPy, Matplotlib, pandas

**Developer Tools:** Linux, Vim, GNU Debugger (gdb), Valgrind, Git

**Technologies:** Object-Oriented Programming, Version Control, Debugging, Web Development

## CERTIFICATIONS

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

## EXTRACURRICULAR

- 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.