

PRIYAVRAT MISRA

Brahmapur, Odisha

p-v.pages.dev

[priyavrat-misra](https://www.linkedin.com/in/priyavrat-misra)

[priyavrat-misra](https://github.com/priyavrat-misra)

cse.pm@proton.me

EDUCATION

Parala Maharaja Engineering College

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

2017 – 2021

Brahmapur, India

Relevant Coursework:

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

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 (Version Control)

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.