

PRIYAVRAT MISRA

Brahmapur, Odisha

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EDUCATION

Parala Maharaja Engineering College

2017 – 2021

Bachelor of Technology - **CGPA - 8.64**

Brahmapur, India

Relevant Coursework:

- Programming & Data Structures
- Design & Analysis of Algorithms
- Operating Systems
- Computer Organization & Architecture
- Database Management Systems
- Theory of Computation
- Compiler Design
- Computer Networks

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.

INTERNSHIP

Indian Institute of Science Education and Research (IISER)

Feb 2020

Student 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.

TECHNICAL SKILLS

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

- 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.