

# Neelkamal Bharati

Senior Year B. Tech Student  
Computer Engineering  
Vishwakarma Institute of Information Technology, Pune

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## Academic Details

- *Bachelor of Technology in Computer Engineering (2017 – 2021)*  
VIIT, Pune | Grade: **9.83/10**
- *Higher Secondary Certificate (2017)*  
Dr. Ambedkar College, Nagpur | Grade: **85.7/100**
- *Secondary School Certificate (2015)*  
St. Lawrence High School, Aurangabad | Grade: **93.2/100**

## Internships

### NVIDIA Graphics, Hyderabad

July 2020 - Present

- Working with the bootloader team for NVIDIA Xavier System on Chip (SoC).
- Working mostly in C and Linux.

### Vijña Labs | Indian Academy of Sciences SRF 2019, Bengaluru

May 2019 – July 2019

- A research internship through the Indian Science Academies' Summer Research Fellowship Programme 2019.
- Worked on the generation of synthetic data and large scale multi-class classification majorly using Support Vector Machines (SVMs) and One-Shot Learning. Report of the project published on Indian Academy of Sciences' Official website.

## Projects

### Visualizing Red Black Trees

April 2019

- Built a tool to **visualize operations of insertion and deletion in Red Black Binary Trees** as a part of Computer Graphics and Data Structures class.
- Made use of C++ for implementing a Red-Black tree and a library called graphics.h for graphical visualization.

### Dog Breeds Classifier

December 2018

- Implemented pre-trained (on the ImageNet data) ResNet34 and Resnet101\_64 architectures on the Kaggle Dog Breeds dataset for Multi-class classification among 120 dog breeds.
- Used fastai library to apply Stochastic Gradient Descent with Restarts (SGDR), Data Augmentation, Fine tuning, Differential Learning Rate Annealing to achieve **accuracy of 92.27%** on test data.

## Technical Skills

**Languages:** C++(Advance), Python(Intermediate), HTML, CSS, MySQL.

**Packages:** Tensorflow, Keras, Bootstrap.

**Tools and Software:** GNU Octave, Jupyter Notebook, Google Colab.

**Operating Systems:** Windows, Linux.

## Co-curricular Activities and Achievements

- Delivered hands-on ML workshops to **200+ students**.
- Received the Indian Science Academies' **Summer Research Fellowship 2019**.
- **Winner of "EarnCode,"** an Intercollegiate competitive programming contest.
- Secretary at **ACM VIIT Chapter**.
- Currently a **4-star rated coder on Codechef**, an online coding platform.

## MOOCs

**Deep Learning Specialization**, by Deeplearning.ai on Coursera (4/5)

**Machine Learning**, by Stanford University on Coursera

**Programming, Data Structures and Algorithms with Python**, by Chennai Mathematical Institute on NPTEL (87%, Ranked in **top 2%** among 4745 certified candidates, Present Toppers List on the Official website)