Kumar **Devesh**

DEEP LEARNING ENTHUSIAST | SECOND YEAR UNDERGRADUATE | COMPUTER SCIENCE

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"The mind is not a vessel to be filled but a fire to be ignited."

Education

Indian Institute of Technology, Roorkee   *Roorkee, India*

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING   *2020 - Exp. 2024*

- CGPA: 8.927/10

Projects

PAPERS WE READ

CONTRIBUTOR | GITHUB REPOSITORY

- This is an open source repository maintained by Vision And Language Group containing summaries and analysis of recently published research papers. **[GitHub Link]**
- Contributed to summaries from recent Deep Learning Conferences.

Password generation using GAN based models

CONTRIBUTOR | ONGOING RESEARCH PROJECT AT VISION AND LANGUAGE GROUP

- **[GitHub Link]**
- Developing a GAN based model for plaintext password cryptanalysis and further to develop safer password creation policies

U-Net Semantic Segmentation Pytorch implementation

OPEN PROJECT | VISION AND LANGUAGE GROUP

- Implemented **U-Net** for semantic segmentation of human faces the helen* dataset
- Implementation link: **U-Net implementaiton**.

Pytorch implementation of CVPR 2020 paper Zero-DCE

SELF LEARNING PROJECT | VISION AND LANGUAGE GROUP

- Implemented **Zero-DCE** for lowlight image enhancement on the lowlight images (LOL) dataset
- Implementation link: **Zero-DCE implementation**.

Pytorch implementation of CycleGAN model

SELF LEARNING PROJECT | VISION AND LANGUAGE GROUP

- Implemented **CycleGAN** for image to image translation from horse images to zebra images on horses2zebras dataset
- Implementation link: **cycleGAN implementation**.

Achievements

2020	**All India Rank - 339,** Joint Entrance Exam (JEE) Advanced
2020	**All India Rank - 1433,** Joint Entrance Exam (JEE) Mains

Skills

Programming Languages	Python, JAVA, HTML, CSS, JavaScript
Packages	Pytorch, TensorFlow, Keras, Numpy, sckit-learn, opencv
Utilities	Git, Linux Shell

Extracurricular Activity

Vision and Language Group, IIT Roorkee   *Roorkee, India*

CORE MEMBER   *January, 2020 - Present*

- Core member of VLG, a student group that promotes **Deep Learning research culture** at IITR by discussing relevant research papers, organizing workshops and working on related projects.**[Link]**
- Involved in paper discussions, contributing to projects, organizing workshops,etc.