

# Jitesh Jain

DEEP LEARNING ENTHUSIAST | FIRST YEAR UNDERGRADUATE | COMPUTER SCIENCE

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*"All progress takes place outside the comfort zone."*

## Education

### Indian Institute of Technology, Roorkee

Roorkee, India

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

2019 - Exp. 2023

- CGPA: 9.333/10

### Central Academy, Kota

Kota, India

GRADE 12 (SENIOR SECONDARY LEVEL)

2019

- Percentage: 96.6%

### Modern Senior Secondary School, Kota

Kota, India

GRADE 10 (SECONDARY LEVEL)

2017

- CGPA: 10/10

## Projects

### PAPERS WE READ

Roorkee, India

GITHUB REPOSITORY | CONTRIBUTOR

May, 2020 - Present

- This is a 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.
- GrokNet: Unified Computer Vision Model Trunk and Embeddings For Commerce- [\[Paper\]](#) [\[Summary\]](#)
- You Only Train Once: Loss-Conditional Training of Deep Networks- [\[Paper\]](#) [\[Summary\]](#)
- Semantically Multi-modal Image Synthesis- [\[Paper\]](#) [\[Summary\]](#)

### Vision and Language Group

IIT Roorkee

SELF-LEARNING PROJECT

May 2020

- Implemented **VQ-VAE** from scratch in Pytorch on the MNIST dataset as a self-learning project.
- Derived conclusions based on the training and testing results regarding the encoding of images into a latent space, adding Vector-Quantization to encodings and generating images.
- Implementation link: [VQ-VAE on MNIST](#).

### Mobile Development Group

IIT Roorkee

SELF-LEARNING PROJECT

December 2019

- Worked on developing an android app- **Societyfy** to help one in finding people around oneself for carrying out activities (eg., study, play, etc.) together.
- Worked with Android Studio (Java) as the development tool.
- Implemented chatrooms for different activities, displaying active users' location on maps, user authentication, etc. with proper architecture of code.
- Playstore Link: [Install Societyfy](#)
- Medium Blog: [Societyfy: An app made for finding company at any time for anything](#)
- Github link: [\[Code\]](#)

## Honours & Achievements

- 2019 **All India Rank - 252**, Joint Entrance Exam (JEE) Advanced is attempted by more than 230,000 students [\[Link\]](#)
- 2019 **All India Rank - 454**, Joint Entrance Exam (JEE) Main is attempted by more than 1,000,000 students.
- 2018 **KVPY Fellowship Holder**, KVPY is a highly prestigious National Fellowship awarded by Indian Institute of Science and Government of INDIA to students who show high aptitude in research. [\[Link\]](#)
- 2017 **NTSE Scholarship Awardee**, NTSE is a national level examination for secondary school level to identify and recognize students with high intellect and skills. [\[Link\]](#)

## Skills

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<b>Programming Languages</b>	Python, JAVA, Dart, C
<b>Packages and Environments</b>	Pytorch, TensorFlow, Keras, Android Studio, Flutter, Numpy, Tensorflow
<b>Utilities</b>	Git, Linux Shell, Vim
<b>Relevant Courses (online)</b>	Deep Learning Specialization (Coursera), Stat 110 (Probability and Statistics) by Harvard University CS231n (Computer Vision Course) by Stanford University
<b>Relevant Courses (offline)</b>	Mathematics-I (Linear Algebra and Calculus), Optimisation Techniques, Discrete Structures, Data Structures and Algorithms

## Extracurricular Activity

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### 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.

### Mobile and Development Group

*Roorkee, India*

ANDROID APP DEVELOPER

*January, 2020 - Present*

- Developer at the Mobile Development group based in IIT Roorkee. [\[Link\]](#)
- Involved in contributing to open-source projects, developing android applications in JAVA and Flutter, etc.

### Geek Gazette, IIT Roorkee

*Roorkee, India*

GRAPHIC DESIGNER

*August, 2019 - Present*

- Official Tech Magazine based in IIT Roorkee. [\[Link\]](#)
- Designing graphics for articles and advertisements for the magazine and the website.