Jitesh **Jain**

Deep Learning Enthusiast | First Year Undergraduate | Computer Science

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"All progress takes place outside the comfort zone."

Summary

A diligent deep learning enthusiast, diving deep into the world of Artificial Intelligence, trying to find solutions to the unanswered problems in the field of AI to help humanity. Familiar with deep learning (computer vision and natural language processing), linear algebra, probability and statistics, and computer science fundamentals.

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 reults 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

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

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.

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.