Vineet **Madan**

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Education

Indian Institute of Technology Ropar *Ropar, India*

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING *August 2017 - Present*

CURRENT C.G.P.A : **9.35/10**

Central Board of Secondary Education *Chandigarh, India*

AISSCE (CLASS 12): **93.6%**   AISSE (CLASS 10) C.G.P.A : **10.0**

Skills

Programming Languages	C/C++, Python
Frameworks / Libraries	PyTorch, Django
Softwares / Tools / OS	Git, Linux(Ubuntu)

Projects

Implemented Multi-Agent Diverse Generative Adversarial Networks *PyTorch*

- Implemented the MADGAN network on 1D-MMG, CELEBA and MNIST Datasets in PyTorch
- Implemented the proposed DEGAN (modification of MADGAN) network on the same datasets
- Analyzed results with respect to variations made in various parameters
- Worked under the supervision of **Dr. NC Krishnan**, IIT Ropar

Media Monitor for Railways *Django*

- Developed the front and back end for the web portal for monitoring news on the Indian Railways using **Django**
- Developed the database API(s) using the django-tastypie framework
- Won at the **Smart India Hackathon 2019** for this project in Media Plan problem statement

Hostel Allotment Portal and Advitiya Website *Django*

- Developed a portal for online hostel allotment for student affairs IIT Ropar
- Lead developer for the website for IIT Ropar's technical fest Advitiya 2019

Satellite Image Segmentation *TensorFlow, Keras, Python*

- Used the **U-Net** architecture for segmenting satellite images into seven classes
- Trained model over the Tesla K80 GPU on **Google Colab**

Other Projects

- Developed chatbot using RASA NLU Framework, MySQL
- Spam Message Filter using K Means Clustering
- Developed service robot based on the line follower model using Raspberry Pi, Django

Relevant Courses

Computer Science	Data Structures, Digital Logic Design, Programming Language Pragmatics and Paradigms, Computer Architecture, Deep Learning, Operating Systems*, Algorithm Design and Analysis*, Introduction to Database Systems*, Applied AI*
Mathematics	Probability and Statistics, Linear Algebra, Discrete Mathematics,Differential Equations, Calculus
Electrical	Signals and Systems

Positions of Responsibility

CDCRC Student Representative *May 2019 - Present*

Internship Coordinator for CSE 2017 B.Tech batch

Robotics Club Representative *June 2018 - May 2019*

Conducted tutorial sessions and competitions for juniors and teach them various skills like coding.

School President *2014 - 2015*

Represented over 3000 students of the school and organized various events

Miscellaneous

Smart India Hackathon	**Winner** at Smart India Hackathon 2019 edition
JEE Rank	Secured a rank of **1066** (Out of **1.5 million candidates**) in Joint Entrance Exam, 2017.
Institute Merit Prize	Among the **Top 7%** students in class for the first four semesters
BAJA Volunteer	Volunteered in the BAJA-SAE India event held in IIT Ropar in March 2018
Advitiya Web Team	Led the web development team of Advitiya, IIT Ropar's technical festival