

Vineet Madan

☎ (+91) 9878795299 | ✉ 2017csb1119@iitrpr.ac.in | 📱 vinx-2105

Education

Indian Institute of Technology Ropar

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

CURRENT C.G.P.A : **9.23/10**

Ropar, India

August 2017 - Present

Central Board of Secondary Education

AISSCE (CLASS 12): **93.6%**

AISSE (CLASS 10) C.G.P.A : **10**

Chandigarh, India

Skills

Programming Languages C/C++, Python, Dart, HTML5, CSS, SQL, Javascript

Frameworks / Libraries TensorFlow, PyTorch, Django, Flutter, RASA NLU, Beautiful Soup

Softwares / Tools / OS MATLAB, Git, Linux(Ubuntu)

Projects

Satellite Image Segmentation

TensorFlow, Keras, Python

- Used the **U-Net** architecture for segmenting satellite images into seven classes
- Used python packages like **Matplotlib, Numpy, SciPy**
- Trained model over the Tesla K80 GPU on **Google Colab**
- Secured **fourth** position in the prestigious **Inter IIT Tech Meet 2018** in the Eye In The Sky Challenge

Spam Message Filter

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- Developed a program which classifies text/email messages as spam and not spam.
- Implemented **K-Means Clustering Algorithm**.

CIFAR-10 Image Classifier

PyTorch, Python

- Developed a basic classifier for the CIFAR-10 dataset using PyTorch

Clubs Organizer App

Flutter, Dart

- Developing an **app** to be used in college by various clubs for organization and communication to members
- Using **Flutter** to develop the app for both iOS and Android platforms

Service Robot

Django, Raspberry Pi, Python

- Developed a **web controlled robot** that could be deployed in a controlled and localized environment to transport goods
- Based on the line follower model using the Raspberry Pi platform
- Developed the web interface using the **Django** web development framework

Vending Machine on FPGA

Verilog, FPGA

- Developed a **web controlled robot** that could be deployed in a controlled and localized environment to transport goods
- Based on the line follower model using the Raspberry Pi platform
- Developed the web interface using the **Django** web development framework

Chatbot

Python, RASA NLU Framework

- The project involves developing a chatbot tailored to the needs of students, professors and administrators in an educational institution
- The project involved the use of the **RASA Natural Language Understanding Framework** and developing a **MySQL** database.

Relevant Courses

Computer Science Deep Learning, Data Structures, Digital Logic Design, Programming Pragmatics and Paradigms*, Computer Architecture*

Mathematics Calculus, Linear Algebra, Discrete Mathematics, Differential Equations, Probability*

Electrical Signals and Systems

Positions of Responsibility

Robotics Club Representative

June 2018 - Present

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

School President

2014 - 2015

Represent over 3000 students of the school and organise various events

Miscellaneous

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 three semesters

Web and App Development Team Leading the web development team of Advitiya-19, IIT Ropar's Technical Festival

BAJA Volunteer Volunteered in the BAJA-SAE India event held in IIT Ropar in March 2018