Education

Indian Institute of Technology Ropar

Ropar, India

B.Tech. In Computer Science and Engineering

August 2017 - Present

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

Central Board of Secondary Education

Chandigarh, India

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

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 C

• 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** wbe 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 databse.

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*

Biology Biology for Engineers* **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