

# Ayush Kumar

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JUNIOR UNDERGRADUATE · INDIAN INSTITUTE OF TECHNOLOGY, KANPUR

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## Education

Exp. 2023 **Bachelor of Technology**, Dept. of Computer Science and Engineering, IIT Kanpur, India *CPI: 9.05/10*  
May 2019 **Grade XII (AISSCE)**, DPS, Ranchi *Percentage: 94.0%*  
May 2017 **Grade X (AISSE)**, Loyola Convent, Ranchi *CGPA: 10/10*

## Achievements

Jun 2019 **AIR 128**, Joint Entrance Examination - Advanced, among 230,000 candidates *India*  
May 2019 **AIR 752**, Joint Entrance Examination - Mains, among 1.1 million candidates *India*

## Projects

### Style Transfer Using Pytorch

SELF PROJECT

July 2020 -August 2020

- Used Pytorch to transfer "style" of one image to another.
- I used a pretrained VGG-19 model and then used outputs of certain layers to grab details within the image.
- Then, using the matplotlib library, I presented the images.

### ML @ Kaggle

SUMMER PROJECT, PROGRAMMING CLUB IITK

May 2020 -July. 2020

- A project aimed at learning the basics and higher levels of machine learning through competitions on **Kaggle**
- Used PyTorch for building the models from scratch at first
- In the later part did sentiment analysis and Word Embeddings using Word2Vec

### Basic CP

SUMMER PROJECT, PROGRAMMING CLUB IITK

May 2020 -July. 2020

- Aimed to learn how to efficiently solve **Competitive Programming** questions
- The Project aimed to introduce and develop Programming skills and how to code with less memory and time complexity

### Deep Dive Into Hackathons (NLP)

HACKATHON, PROGRAMMING CLUB IITK

August 2020 - September 2020

- A series of deep Learning Hackathons
- Participated in the hackathon **Gendered Pronoun Resolution** on **Kaggle**
- Got a private score of 0.7028 in the hackathon.

## Positions of Responsibility

### Academic Mentor

COUNSELLING SERVICE

Oct. 2020 - ...

- Part of the **organizing** team for **Orientation programme** for the incoming Batch of 2020
- Conducted **remedial lectures** and **discussion sessions** for first year students in the courses **MATHEMATICS-I/II**

## Skills

<b>Programming Languages</b>	C/C++, Python
<b>Frameworks</b>	PyTorch, TensorFlow
<b>Robotics</b>	ROS, OpenCV, Arduino
<b>Utilities</b>	LaTeX, Git, Autodesk Inventor, Numpy, Pandas, Matplotlib
<b>Languages</b>	English, Hindi, Punjabi
<b>OS</b>	Linux(UBUNTU), Windows

## Relevant Coursework

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<b>Computer Science</b>	Fundamentals of Computing, Data Structures and Algorithms, Computer Organisation(Ongoing), Software Development And Operations(Ongoing)
<b>Electrical Engineering</b>	Introduction to Electronics
<b>Mathematics</b>	Linear Algebra and Ordinary Differential Equations, Multivariable Calculus, Mathematics For Computer Science I, II, III (Ongoing)
<b>Economics</b>	Introduction To Economics
<b>Coursera</b>	Algorithms In Graphs, Machine Learning With Python, Data Structure, Data Science in Python, Algorithmic Toolbox ( <i>Online Courses</i> )