

Gurbaaz Singh Nandra

COMPUTER SCIENCE · SOPHOMORE

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Education

Indian Institute of Technology Kanpur

B.TECH. IN COMPUTER SCIENCE AND ENGINEERING

CPI 9.56/10.0

July 2019 - PRESENT

MGN Public School, Jalandhar

SENIOR SECONDARY EDUCATION

Percentage 95%

2017 - 2019

MGN Public School, Jalandhar

SENIOR EDUCATION

CGPA 10.0/10.0

Till 2017

Scholastic Achievements

- | | | |
|------|---|-------|
| 2019 | All India Rank 208 , secured among 200k students in JEE Advanced, 2019 | India |
| 2013 | All India Rank 159 , among 1.5 million students in JEE Mains, 2019 | India |
| 2019 | Secured Top 1% National Ranking in NSEC , and qualified for INCHO(chemistry) and INAO(astronomy) national-level Olympiads. | India |
| 2018 | KVPY Fellowship , secured AIR 90 among 100k students in KVPY conducted by IISc Bangalore. | India |
| 2016 | NTSE Scholar , topped the state level examination and secured among top 1000 students in the second stage. | India |

Projects

Model Zoo

SUMMER PROJECT PROGRAMMING CLUB

IIT Kanpur

May 2020 - Jul. 2020

- Read, analysed and implemented various deep learning models from research papers in PyTorch and contributed to Programming Club repository containing different models.
- Implemented ResNet, InfoGAN, Deep Visual Semantics Image Captioning and GloVe covering domains from GAN to Image Detection to NLP.
- Github repo

RAD: Reading, Analysis, Discussion

SUMMER PROJECT ASTRONOMY CLUB

IIT Kanpur

May 2020 - Jul. 2020

- Reading, analysis and discussion of various astronomical concepts and phenomenon from Introduction to Astronomy : Frank H. Shu.
- Grasped an intermediate level knowledge of Tensors.
- Latex Documentation

Basic CP

SUMMER PROJECT PROGRAMMING CLUB

IIT Kanpur

May 2020 - Jul. 2020

- Learnt about Data Structures : Graphs, Trees, Stacks, Queues and connected algorithms as well as sorting algorithms.
- Grasped the notion of time and space complexity and the different notions.

Writing OS in Rust

ACA SEMESTER LONG PROJECT

IIT Kanpur

Jan. 2020 - May 2020

- Learnt about system calls, kernel and grass root level of OS.
- Implemented basic minimal OS using Rust features of writing on bare metal.

Examination Portal

ESC101-A ADVANCED TRACK PROJECT

IIT Kanpur

Sept. 2019 - Nov. 2019

- Developed a portal in vanilla HTML and Firebase for database to create Login/Register and abilities to make an examination or give one.
- One can view results and statistics of the all students for a particular exam after submission.

Skills

Programming	Python, C/C++, Javascript, MATLAB, Rust
Frameworks	PyTorch, Keras, Tensorflow
Web	Django with Python, Flask, REST API, JQuery, HTML5, CSS
Utilities	OpenCV, NLTK, Scikit, Git, Bash, LaTeX
OS	Linux(Ubuntu), Windows
Languages	English, Hindi, Punjabi

Relevant Courses

- Fundamentals of Computing (ESC-101A)
- Linear Algebra and ODE (MTH-102A)
- Introduction to Calculus (MTH-101A)

Extracurricular Activity

Astronomy Club

SECRETARY

IIT Kanpur

May 2020 - PRESENT

Quiz Club

SECRETARY

IIT Kanpur

July 2020 - PRESENT

Dramatics Club

MEMBER

IIT Kanpur

August 2019 - PRESENT