

Ayush Agrawal

SOPHOMORE · IIT ROPAR

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Education

Indian Institute of Technology Ropar

BTECH IN CHEMICAL ENGINEERING

- CGPA: **7.34/10**

Ropar, India

Jul. 2018 - Present

Mahathi Junior College (AP State Board)

11TH AND 12TH

- Intermediate: **96.3%**

Visakhapatnam, India

Apr. 2016 - Mar. 2018

Delhi Public School Visakhapatnam (CBSE)

10TH

- Marticulation: **9.8/10**

Visakhapatnam, India

Apr. 2009 - Mar. 2016

Skills

Programming Languages C/C++, Python, HTML5, CSS, JavaScript, MATLAB

Frameworks/ Libraries Django, PyQt5, PyQtgraph, NumPy, Pandas, Matplotlib, Socket, OpenCV, SymPy

Software/ Tools/ OS XCode, Git, Linux(Ubuntu), MacOS

Work Experience

FOSSEE, IIT Bombay

GUIDE: DR. KANNAN M. MOUDGALYA

GUI for Open Modelica Chemical Process Simulator based on PyQt5 [Link to certificate] [Link to report]

- Added the feature of interactive Binary Phase Envelope plotting using PyQtgraph library
- Improved the class structure of the whole source code, especially the API(which generates modelica code).

Python, PyQt5, PyQtgraph

Dec 2019 - Jan 2020

IIT Ropar

GUIDE: DR. PUNEET GOYAL

Developing Automatic License Plate Recognition(ALPR) System.

- Building a CNN to identify license plates from images, videos etc which can be used for multiple applications

Python, TensorFlow, OpenCV

Ongoing

Projects

C code for merging .vcf files containing common contacts and also with different numbers

The .vcf files contained common contacts, some with different numbers, and some with different names

PyQt5 application for reading, editing, and plotting a .csv table[github]

Apart from reading, editing the app can make scatter and line plots. The plots can also be saved as .png images

Relevant Courses

Computer Science Data Structures and Algo, Data Science, Deep Learning(Coursera), Computer Architecture workshop by IIT Ropar

Mathematics Advance Calculus, Linear Algebra, Differential Equations

Miscellaneous

Competitive Programming CodeChef rating: **1979**(max), also active on **CodeForces** and Google CodeJam, Kickstart. Handle: **ayush_hazard**

Positions of Responsibility **Student Representative, CDCRC**(Carrer Development and Corporate Relations Centre) IIT Ropar

Social Work **Tutoring under-privileged children** near IIT Ropar campus as a project under NSS (National Service Scheme).

Co-Curricular Good at **Guitar**, Calligraphy, Swimming

Teams A part of the **web-development team** of Chemical Engineering Dept.

Clubs An active member of **Coding Club**, **Software Community** and **Music Club** at IIT Ropar

Olympiads Secured national rank of **53** in level 1 of National Cyber Olympiad by SOF in class 10th