Pritam Jatuya

Department of Physical Sciences, IISER Kolkata

pj22ms128@iiserkol.ac.in, +91 7550842950

I am a 3^{nd} year, 6^{th} semester student at the **Indian Institute of Science Education and Research, Kolkata** under a 5-year BS-MS dual degree programme. I am doing my major in physics. I am doing a minor in Computer Science and planning to do a minor in Mathematics.

❖ Academic Results

- 3^{rd} year (BS-MS Dual degree programme), IISER Kolkata, CGPA: 8.2.

Semester	SGPA
1st	8.79
2nd	7.79
3rd	8.00
4th	8.32
5th	8.00

- 10^{th} board result under WBBSE: 90.3%
- 12^{th} board result under WBCHSE: 94.0%

❖ Relevant Courses

- **Sem 1:** Mathematics I, Mechanics I, Physics Lab I, Introduction to Computer Programming.
- **Sem 2:** Mathematics II, Electricity and Magnetism, Physics Lab II, Mathematical Methods I.

- **Sem 3:** Analysis I, Linear Algebra I, Mechanics II, Wave and Optics, Physics Lab III (Optics), Mathematical Methods II.
- **Sem 4:** Analysis II, Probability I, Basic Quantum Mechanics, Thermal Physics, Physics Laboratory IV(Modern Physics).
- **Sem 5:** Programming and Data Structures I, Classical Mechanics, Quantum Mechanics, Mathematical Methods of Physics, Electrical Circuits and Electronics, Nuclear Physics Laboratory.

  [audit : Analysis III]

❖ Skills

✦ Programming:

Python :

I am an intermediate-level Python learner.

i. external module known - **Numpy, Pygame, Pandas, Matplotlib, Pydantic** etc

ii. familiar with the concepts of **Object-Oriented Programming, Decorators, Descriptors, Meta classes** and basic concepts of **Asynchronous programming** in Python.

iii. two courses done on the **Python language** and one course on **Computational physics**(based on Numpy and Matplotlib).

C language :

I am an intermediate-level C learner. I have had two courses on the C language. I can familiar with concepts of -

i. various data structures like **binary search tree, height balanced tree, linked list** etc..

ii. **pointers, structures, unions, enums and header files**.

My past experience includes building a command-prompt user interface shopping system.

HTML, CSS and JavaScript :

I know basic HTML-CSS-JavaScript. Past experience includes building a basic website about myself in the iiserkol domain.

Other languages:

I am also familiar with other languages listed below.

i **C++ :** beginner-intermediate level.

ii **RUST :** beginner level.

iii **Markup languages:** LaTeX, xml, yaml and json.

Computational physics:

I have has a computational physics that has taught us about various algorithms such as RK4, Crank-Nicolson, shooting method for eigen value, strang splitting to TDSE etc.

✦ Lab Experience :

I have had 6 lab courses. My lab experience includes optics lab, modern physics lab, nuclear physics lab and electronics lab.

❖ Region of interest

My region of interest are spread across many domains and topics in physics , mathematics and computer science few of then are discussed briefly

- **Physics:** I am interested in cosmology and particle physics that will help me understand topics like dark matter and the birth of the universe.
- **Mathematics:** I am interested in fundamental mathematics, e.g., set theory that helps me understand how math is built from scratch.
- **Computer science:** I am very interested in computer science and love to try solving a problem the most efficiently.

GitHub

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