



Vaibhav Agrawal | 20PH20042

Integrated MSc(Physics)

Education

Year	Degree/Exam	Institute	
2025	Integrated MSc	IIT Kharagpur	
2020	Intermediate (Class-12)	Central Board of Secondary Education	93.6%
2018	Matriculation (Class-10)	Central Board of Secondary Education	90.4%

SKILLS AND EXPERTISE

Languages : Python , JavaScript , C++ , C , MATLAB, HTML, CSS.

Tools, Software's and Libraries :ReactJS, NodeJS, Pandas, Matplotlib , NumPy, Wolfram Mathematica, Express, Google SketchUp.

Others: Market Analyst, Teaching, MS office

COURSEWORK INFORMATION

- Data Structures and algorithms
- Probability and Statistics
- Data Analytics
- Programming and Data Structures
- Linear Algebra
- Web Development

Internship and Involvements

Trans-Enigma	Working on a machine learning Project for NLP.
Doubtnut	Creating learning videos and assignment problems for students preparing for Engineering colleges
Case Study Club	Estimate production costs, cost-saving methods, and the effects of a product design change on expenditures for management review, action, and control. Prepare reports summarizing information or trends
National Service Scheme	Being a group leader and serving the nation in volunteer services
VOICE	As a member of VOICE IIT Kharagpur, a youth welfare group, organized sessions on Time Management, Stress Management, Mind Control, etc.

ITC

Running a residential school for poor tribal children from various parts of India and acting as a teacher there.

Projects

- **Personal Project: Hotel Website Development**

Developed a website using HTML, CSS, and JavaScript for a hotel to take orders, and allow for online bookings.

Built a RESTful API using NodeJS and Express

Incorporated Google Maps API to provide the location and directions to the hotel.

- **Personal Project: Online Portfolio**

Developed a responsive website using ReactJS and NodeJS

Designed and implemented the website's UI/UX using HTML, CSS, and Bootstrap.

Utilized NodeJS to build a RESTful API for fetching project data dynamically from a database.

- **Personal Project: Image Recognition using Machine Learning**

Developed a machine learning model using Python and TensorFlow to recognize images of objects in real time.

Trained the model on a dataset of 10,000 images, achieving an accuracy of 90%.

AWARDS AND ACHIEVEMENTS

- City topper-National Science Olympiad for consecutive 2 years.
- City topper-International Maths Olympiad
- Cracked JEE and studying in one of the most prestigious institute of India.

EXTRA CURRICULAR ACTIVITIES

Kabaddi

Won the Inter school organized at district level

Chess

Won the silver medal representing one of the house of School
