



EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2021	M.TECH Dual Degree 5Y	IIT Kharagpur	7.36 / 10
2016	INTERMEDIATE PUBLIC EXAMINATIONS	SRI CHAITANYA JUNIOR COLLEGE	86%
2014	ICSE	ST ALOYSIUS ANGLO INDIAN HIGH SCHOOL	78.3%

SKILLS AND EXPERTISE

Programming Languages: C,C++,Python,Java
Languages known: English, Hindi, Telugu.
Database: MySQL .
Operating Platforms:Windows, Ubuntun.
Softwares:Microsoft Office, Solidworks.
Other Skills: Ambidextrous.

INTERNSHIPS AND PROJECTS

1.Dr. Satyahari DeyScience and Technology Entrepreneurs Park (STEP)(IIT KHARAGPUR)| May 2018 - July 2018|
Title: Design, construction, and automation of a cost-effective greenhouse for modern agriculture
Built a Prototype of Mobile GreenHouse incorporated sensors for continous monitoring and made a attempt to add Aquaponics to the Mobile GreenHouse.

2.Dr. Riddhiman Dhar (IIT KHARAGPUR) | May 2019 - December 2020|
Title:Co-evolution of flagellar proteins| Bachelor's Thesis Project
Building Phylogenetic Trees using Multiple Alignment using Fast FourierTransformation.

3.Prof Mrinal Kumar Maiti|Summer Internship(IIT KHARAGPUR)|April 2020-August 2020|
Title: In-Silico Identification of functional Domains present in OsGLP 2 protien and Docking Analysis with Different Ligands.
Predicted Models for the given Protein using Homology modelling softwares like SWISS-MODEL and I-TASSER.
Performed Docking with different Auxins and analyzed docking results to find the affinity and Metal Ion Binding Sites.

TRAINING

Machine Learning Laboratory | Prof Adway mitra | September2020 - November2020
•Prediction of Daily Monsoon Rain Fall using both Linear Regression and Lasso regularized Linear Regression.
•Implemented a bottom-up hierarchical clustering algorithm considering the Simple Jaccard Coefficient as notion of similarity.
•Hand Gesture Classification by converting image into binary image and applying SVM classification on extracted features.
•Multilayer Neural Network for classifying a given message to SPAM or HAM(non-spam) using Stochastic Gradient Descent.

POSITIONS OF RESPONSIBILITY

Department UG Representative of Biotechnology Department (IIT KHARAGPUR) [2019-2020]
•RepresentsStudents in the Departmentand disseminate information provided by the authorities.
•Member of Undergraduate Council, under Dean UGS, to identify problems and raise issues for the welfare of the students.
•Planning new initiatives to provide flexibility in the curriculum which will benefit 6000+undergraduate students.
•Conducted an Induction Programme for First-Year Student, andAssimilation Programme for Second Year Students.

General Secretary,BioEnGene, Institute Research Group(IIT KHARAGPUR) [2019-2020]
•Coordination of whole group activities.
•Overall management of research &General Activities.

Kshitij AnnualTechno-ManagementFest at IIT Kharagpur[19TH-21ST JAN 2018] Position: SubHead
•Led a team of 8 volunteers for conducting Maths Olympiad during Kshitij 2018.
•Responsible for conducting exams at 2 venues.

Biotsav Fest at IIT Kharagpur[1ST-3RD NOV2019] Position: Core Team Head
•Organized first-ever National Students Fest for bio-allied students .

AWARDS AND ACHIEVEMENTS

•Secured **AIR 4700** in JEE ADVANCED (2016)
•Achieved **94.80** percentile score in JEE MAINS (2016)
•Awarded with a **scholarship** from NCC Cadet Welfare Society
•Awarded with scholarship under Prime Minister Scholarship Scheme .
•Secured **A** Grade in NCC B Certificate Examination

COURSEWORK INFORMATION

Computer Science Courses: Programming and Data Structures*|Algorithms|Machine Learning Foundations and applications*
Mathematics Courses: Probability and Statistics|Partial Differential Equations (PDE)|Mathematics I &II.
Others Courses:Economics|Engieering B-Plan Development|Environmental Studies|Science of living system|Chemical Process Calculations|Mass Transfer- I|Drug Design and Development |Cancer Biology.
Biotechnology Courses:Microbiology*| Biochemistry *|Cell &Molecular Biology*|Bioinformatics*|Plant Cell Tissue Culture*|Immunology|Protein Engineering|Bioprocess Technology|Gene Expression|Neurophysiology| Transgenic Technology| Secondary Metabolism in Plants and Microbes| Immunotechnology| Introduction to System Biology | Enzyme Technology Laboratory|Biotechnology of Plant Metabolites|Analytical Biochemistry Laboratory| Biochemical Engineering Laboratory(*Indicates courses including Lab).

EXTRA CURRICULAR ACTIVITIES

•**NCC 3 Bengal Tech Air Squadron|National Cadet Corps (IIT KHARAGPUR)| [2016-2018]**
Served as **Cadet Sergeant** for 1 year and Served as **Cadet Corporal** for 1 year in 3 **Bengal Tech Air Squadron NCC** (IIT Kharagpur).Participated in Combined Annual Training Camp 2016 .
Trained **150** cadets in 3 **Bengal Tech Air Squadron NCC**and volunteered for many social welfare activities like Blood Donation, Swachh Bharat Abhiyan.