

Dhanya Bahadur Chemistry Indian Institute of Technology Bombay Specialization: Chemistry 17B030027

UG Third Year (B.Tech.)

Male

DOB: 26/01/2000

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2020	6.80
Intermediate/+2	Chinmaya Vidyalaya Bokaro	CBSE	2017	92.80
Matriculation	Sainik School Purulia	CBSE	2015	10.00

Scholastic Achievements

• Pursuing minor degree in Electrical Engineering from our institute	
• Secured 92.8 percentage in Higher Secondary Examination of Class 12 CBSE Board	[2016]
• Recipient of the prestigious National Talent Search Examination (NTSE) Scholarship	
• One among TOP 79 students in country who were awarded Dr B R Ambedkar Medha Puraskar	[2015]

Internship

Web Developer | Front End Web Developer | BETR Consulting

[Dec'18]

Team Responsible for developing front end of our company's website

- Successfully Developed Front End of the Company's website using Angular Framework (Angular 6)
- Temporarily Integrated the Front End and Back End of the website using Heroku
- Worked on other Projects of company including Online Coaching Classes
- Interacted with students to understand and develop the website for Online Coaching effectively
- Improvised Business Development Plan by studying Business Development Strategies of other companies

Technical Projects

Self Driving Cars | Research Project

[May'19-Present]

Guiding Professor: Arpita Sinha, Department of System and Controls, IIT Bombay

- Currently working on improvising the Efficiency and Accuracy of movements of Self Driving Cars
- Currently working on Torcs Simulator and Snakeoil Controller to analyse different Deep Learning Models
- Prepared and improvised the model of Car using Reinforcement Learning(particularly Q-Learning)
- Researched on Self Driving Cars by reading various research papers and implementing them in my model

Rakshak | System and Controls Engineer

[Dec'17-Present]

Guiding Professor- Krishnendu Haldar

- A key member of team working on UAVs and UGVs
- Worked on flight controller Pixhawk connected with transmitter, GPS and other components
- ullet Configured with Mission Planner or QGround Control , a full featured ground station application
- Worked on calibrating the values , setting base parameters and uploading the way points to QGround Control

Relish Trip | Entrepreneurship Course Project | Entrepreneurship

[Mar'18-Apr'18]

Guiding Professor: Raj Jaswa, SINE, IIT Bombay

- Analyzed the field of Search Engine Optimization(SEO) to optimize the official webpage
- Improved the website's ability to drive business goals and customer demands
- We reached out to potential customers to understand their needs and expectations from our startup
- Helped in improving the Business Model Canvas(BMC) by customer segmenting, building a better Value Proposition
- Analyzed the entire startup and came up with effective solutions for customer channels

All Terrain Service Vehicle(ATSV) | Institute Technical Summer Project [May'18-July'18]

- Worked in team of four to develop a Semi Autonomous Hovercraft
- Used micro-controllers like Arduino, MPU6050, Ultrasonic Sensors etc to control bot
- Analysed Hovercraft's model using ANSYS various simulation

• Achieved Wireless connectivity using microcontrollers and Blynk App

Positions of Responsibility

Institute Sports Convener | Rubik's Cube Club | Sports Council, IIT Bombay [Apr'18-Apr'19] A Team working on Developing and Promoting the Environment of Rubik's Cube

- One among Top 34 out of 120 students who were selected as Convener of Sports Council of Institute
- Organised IIT Bombay HALF MARATHON in collaboration with HA Council and FITIZEN
- The event witnessed a Footfall of over 4000 people
- Ideated and Successfully organised Freshie-La-Vista, a sports event for 850+ students
- Successfully Organised Freshmen Orientation, a sports event for 800+ students

Abhaysarika Volunteer | Non Government Organisation

[Apr'18-Present]

An NGO responsible for preparing Poor students for Competitive Exams, IIT Bombay

- ABHAYSARIKA is a Non-Profitable Organisation constituting Volunteers as students of IIT Bombay
- Volunteer in Teaching economically weaker students of Classes 11 and 12
- Mentoring Development of students and preparing them for Competitive Exams and Board Exams

Events Coordinator | Informals | Mood Indigo, IIT Bombay

[July'18-Jan'19]

Part of a team of 4 members dedicated towards Organising and Conducting Events

- Incentivised participation for **Flagship Competition** by facilitation of **International Opportunities** for Winners
- Conceptualized customised integrations to facilitate Interactive BTL Activations for various sponsors
- Enhanced experience of 100,000+ visitors and Judges by assembling lounges strategically placed in 550+ acres
- Spearheaded Negotiations with Artists and Vendors to curate unique events in the Festival

Technical Proficiencies

- Software Packages: MATLAB, AutoCAD, ANSYS, LTSpice, TORCS, Solidworks, RStudio, Jupyter notebook, Arduino, Raspberry Pi
- Programming Languages: C++, LaTeX, Python, Arduino

Key Courses Undertaken

Core Courses	Calculus, Data Analysis for Chemists, Thermodynamics, Linear Algebra,	
	Quantum Physics and Applications, Electricity and Magnetism, Differential	
	Equations , Analog Circuits, Probability and Random Processes	
Computer Science	Machine Learning ,(Introduction to TensorFlow for Artificial Intelli-	
	gence, Machine Learning, and Deep Learning), Data Structures and Algo-	
	rithms, Machine Learning for Data Analysis	

Extracurriculars

- Sucessfully completed 21Km run in IIT Bombay Half Marathon
- Secured 5th position in Boy's Cross-country Championship held on 2nd Sem of the academic year 2018-19
- Secured 6th position in Crosscountry Championship of Sophomore students of IIT Bombay
- Won silver medal in **BIATHLON** (5Km running+7Km Cycling) held on 26th january 2018
- Volunteered and assisted the Hostel council in crowd management during admission of MTech and Phd students which had witnessed footfall of 5000+ students
- Won gold medal in Volleyball championship of RAFTAAR-18 (competition between H 16 and H 15)
- One among TOP 6 players who represented NSO Team of IIT Bombay in Aavhan Volleyball Championship
- Selected in National Sports Organisation , Volleyball