



Abhinav Gupta

ROLL NUMBER: 170122001

B. TECH - CHEMICAL SCIENCE AND TECHNOLOGY
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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Guwahati	8.18 (Current)	2017 - Present
Senior Secondary	H. P. Board of School Education	90.0%	2016
Secondary	CBSE board	10.0	2014

EXPERIENCE

- Codeasylums Summer Bootcamp - Bangalore** May - June 2019
 Mentor: Mr. Pratyush Agarwal, Founder, CodeAsylums Type: Full-stack Web-Development Position: Trainee
 - Developed a digital version of a personal diary/ journal capable of adding photos, video/audio along with text entry.
 - Designed the database schema using Mongoose and implemented a complete **CRUD** model using Express-framework in Node.js.
 - Technologies used:** HTML, Bootstrap, JavaScript, Node.js, MongoDB

PROJECTS

- Toxicity Prediction of Amino Acid Sequences: Bachelor Thesis Project** Ongoing
 Supervisor: Dr. Manabendra Sarma, Department of Chemistry, IIT Guwahati
 - Analyzed various protein/peptides structures for identifying malignant characteristics.
 - Working on developing an **in-silico** method for efficiently predicting the toxicity of Amino acid sequences using a suitable machine-learning model.
- Himachal Undiscovered** April-June 2020
 Self-Project, Full-stack Development https://git.io/JUWs5
 - Designed** and deployed a web-app for enhancing tourism in unexplored places of Himachal Pradesh.
 - Implemented** user-authentication and authorization for creating, editing, and removing places.
 - Added** features like **searching** by the name of a place or an author, **sorting** by popularity, and **rating** a location.
- Food recipe Finder** May 2019
 Front-end development https://git.io/fjDXS
 - Built** a responsive website that displays recipes and health information for the food ingredients input by the user.
 - Extracted** relevant data from an API service by making an **ajax request** using jQuery.
- DNA profiler** October-2018
 Course project https://git.io/JUzKA
 - Created a **console application** that identifies a person by performing Short Tandem Repeats analysis.
 - Used **regular expressions** feature in python to match multiple STR counts of each person in a given DNA sample and output the corresponding result.

TECHNICAL SKILLS

- Programming languages:** C/C++, Fortran, Python*
- Web technologies:** HTML, CSS, Bootstrap, JavaScript, Node.js
- Database Management:** MongoDB
- Tools:** Git, GNU PLOT, Gaussian, Vim
- Operating system:** Working experience on Windows and Linux *Elementary Proficiency

KEY COURSES TAKEN

- Computing lab
- Data Structures and Algorithms
- Web Development (Udemy)
- Harvard's CS50 (edx) *
- Linear Algebra
- Intro to Machine Learning (Kaggle)
- Computational Chemistry
- Quantum Chemistry *ongoing

POSITIONS OF RESPONSIBILITY

- Event Manager, TEDx - IIT Guwahati- 2019**
Contacted various dignitaries for delivering the talk and **coordinated** with the team for managing **200 people** gathering.
- Content-Writer and Editor, The Excited-State (Departmental Magazine)**
Interviewed Dr. Uttam Manna, an award-winning professor from the Chemistry department and **transcribed** an article about him.

ACHIEVEMENTS

- Joint Entrance Examination 2017:** Secured All India Rank in the top **3%** among 0.22 million candidates appearing for the test.
- State Board Merit Award:** was rewarded a laptop for obtaining Merit in Senior Secondary Examination.
- Attained State Rank - 2 twice in **National Level Science Talent Search Examination** (2010, 2013).
- National Interactive Science Olympiad (NISO):** Scored among the top 1% in the country and qualified for the international level.

EXTRACURRICULARS

- Anchored** in the Industrial Conclave Event at Techniche-2018 (*Technical festival of IIT Guwahati*)
- Participated in the blood donation camp, social awareness workshops and contributed towards community services under NSS.
- Hobbies/Interests:** avid participant and position-holder in several district and state-level **Science quiz** and **painting** competitions.