



Ayushman Choudhary
Chemical Engineering
Indian Institute of Technology Bombay

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B.Tech.
Gender: Male
DOB: 11-02-2002

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2024	8.68
Intermediate	CBSE	Navyug Sr. Sec. Convent School	2020	95.00%
Matriculation	CBSE	Daly College, Indore	2018	97.40%

Pursuing **Minor Degree in Computer Science and Engineering**

SCHOLASTIC ACHIEVEMENTS AND AWARDS

- Ranked **9th** in a batch of **150+** undergraduate students in the Chemical Engineering Department [2021]
- Secured an **All India Rank 1974** in IIT-JEE Advanced 2020 among **0.2 million** students [2020]
- Secured **99.82 percentile** in JEE Mains among **1 million+** aspirants with an **All India Rank - 2083** [2020]
- Recipient of the **Kishore Vaigyanik Protsahan Yojana (KVPY)** scholarship with an **AIR 511** among **50k+** applicants [2020]
- Awarded **School Topper** in Class **XII** among **200+** students securing **95.0%** in CBSE Boards [2020]
- Recognized in top **0.1 %** among **5 lakh+** candidates in Mathematics CBSE Boards class XII [2020]
- Received the **Dewas Sr. Prize for School Topper** in Class **X** among **150+** students securing **97.4%** in CBSE Boards [2018]

PROFESSIONAL EXPERIENCE

Emerge India | Trainee

[Oct '20 - Dec '20]

Collaborating with international agencies and think tanks for achieving the SDGs
Research and Database

Founder & Mentor: Devesh Gupta

- Worked in a team of **10+ trainees** to successfully organize the **Emerge Model UN Conference 2020**, involving **5+ committees** and **100+ delegates** from across the globe, spanning a total of 3 days
- Presided as **rapporteur** in the **Global Voices Program Dialogue V: Biodiversity & Us** in support of UN75
- Transcribed the conversation amongst the foreign delegation and prepared the final report of the event spanning 6+ pages
- Tabulated the **50+** archive records of books-author for improving reference and drafted the **study guide** for **20+ delegates**

KEY PROJECTS

Athena (Udemy for IITB)

[Jul '21 - Present]

ICC PET Project

An **online learning and teaching** portal for the **10,000+** students of IITB having **courses & workshops** from **10+ ICC Clubs**

- Spearheading as **lead web developer** for full stack development of an **Express app** with **MongoDB** maintaining collections
- Providing a **user-profile** system using **JSON Web Token** along with **password hashing** for secure authentication process
- Designing the E-learning platform to bring down expenditure on classes by **1,00,000 INR** per annum

CheckItOut

[Aug '21 - Present]

Course Project | Introduction to Entrepreneurship

Course Instructor: Prof. Anu Narasimhan

Desai Sethi School of Entrepreneurship, IIT Bombay

A **business venture (B2B) idea** for providing **seamless checkout system** at Tier-I & II cities hypermarkets

- Analyzing the feasibility of an **AmazonGo** level **come-take and leave** checkout system or a **fast, automatic conveyor** based system employing sensor fusion and deep learning and using payment methods secured with blockchain technology
- Working in a diverse team of **9 people** for designing a **Business Model Canvas** on Value Proposition, Customer Segments and Relations, Key Activities and Resources, Partners, Cost Structure and Revenue Streams
- Performing **Customer Discovery** to identify the **red-dot customer** and create a database for insights on customer behaviour

Machine Learning System

[Sept '21 - Present]

Training Machine Learning models

Self Project

Employing the immense capabilities of **Python** and its libraries including **Scikit-learn** to train multi-feature datasets

- Analyzed an extensive **salary vs experience** data set to formulate a **simple linear regression** curve for salary predictions
- Tabulated the R&D Spend, Administration and Marketing Spend, Place and Profits of **50+ startups** and employed **OneHotEncoding** to train a **Multiple Linear Regression** model for identifying the best combination of features
- Processed the Position vs Salary of **10+ portfolios** in a company to train a **Polynomial Linear Regression, Support Vector Regression, Decision Tree** and **Random Forest Regression** model for intermediate position salary prediction

Covid Scraper

Web Scraping Django App

[Jun '21 - Jul '21]

Certified with Project and Distinction in PyCK course conducted by seniors IIT Bombay

- Portrayed recent global and national statistics on the Covid-19 pandemic through real-time web scraping functionalities
- Utilized **BeautifulSoup** library for web scraping **HTML scripts** of various webpages including **Google News**
- Incorporated **Google Maps JavaScript API** for rendering an interactive world map displaying world Covid-19 figures

Internship Website

ICC Web Convener

[May '21]

- Built a **fully-responsive** internship blog portal for internship openings for placement managers and registrations for users
- Provided login and registration using **PHP session** to deliver user-specific content on the blog by storing user information
- Employed **mySQL database** to store uploaded resumes and incorporated CRUD operations for editing flexibility

News App

Angular App

[May '21]

- Displays latest news fetched from **API service, newsapi.org** on a responsive card-based webpage
- Divided the website into **different components** such as India, Business and Politics to display category specific news
- Generated an API key, integrated with Angular system, written in TypeScript for the backend programming

POSITION OF RESPONSIBILITY

Web Convener | Institute Cultural Council

[Jun '21 - Present]

- Working in a **team of three**, developing 12+ websites of cultural clubs for revamping the **Culturals Gymkhana portal**
- Coordinating with **10+ clubs** involving **50+ council members** to mold their website requirements into template designs
- Working in a diverse team of **9+** different club members on **PET projects** catering to all institute requirements

TECHNICAL SKILLS

Programming	C++, Python, HTML, CSS, JavaScript, PHP, MySQL, MongoDB, MATLAB, \LaTeX
Frameworks Libraries	Bootstrap 5, Django, NodeJS, ExpressJS, Pandas, Numpy, Matplotlib, Scikit Learn
Software	Git & Github, Postman, Figma, Unity

KEY COURSES UNDERTAKEN (*Ongoing)

Computer Science	Computer Programming and Utilization, Computer Networks*
Chemical Engineering	Introduction to Chemical Engineering, Transport Phenomena*, Thermodynamics(I)*
Mathematics	Calculus(I&II), Linear Algebra, Differential Equations(I&II*), Numerical Analysis*, Computational Methods Lab*
Physics & Chemistry	Quantum Physics & Application, Basics of Electricity & Magnetism, Organic & Inorganic Chemistry, Physical Chemistry,
Other	Introduction to Entrepreneurship*, Engineering Graphics & Drawing, Philosophy*, Biology

EXTRA-CURRICULAR ACTIVITIES

SPORTS	<ul style="list-style-type: none">• Awarded renowned shot, representing Madhya Pradesh in the 61st National Shooting Championship, Kerala in 10m Air Rifle Youth Men [2017]• Received gold (Ind.), silver(Ind. & Team) and bronze(Ind.) medal at the 19th & 20th MP State Shooting Championship for open sight and peep sight 10m air rifle [2016 & 2017]• Received bronze(team) medal at 14th All India IPSC Shooting Championship [2017]• Passed the Certificate A examination comprising of training periods and written tests and completed the Combined Annual Training Camp VIII with rank SGT in the NCC [2017]
TECH	<ul style="list-style-type: none">• Secured a global rank of 1884 in Google Kick Start Round B in competitive coding [2021]• Certified with HackerRank Problem Solving (Basic) and (Intermediate) in C++ [2021]• 3 Star coder at CodeChef with 1717 rating and 4 star in CPP at HackerRank [2021]• Received Special Mention in Game Development Hackathon organized by WNCC [2021]• Participated in One Day National Webinar on Machine Learning using Python, organized by Dept. of CSE, Synergy Institute of Technology, Bhubaneshwar [2021]
CULTURALS	<ul style="list-style-type: none">• Co-authored the book, My Life Your Eyes! published by Verses Kindler Publication [2021]• Presided as Vice-Chair in the UNHRC committee in the Daly College Model UN [2017]• Adjudged the Best Delegate in EHMUN (DISEC-2015), Daly College Youth Parliament (House of Commons-2016) & BATCHMUN(DISEC-2016)