

Hiten Dalmia

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EDUCATION

- Nov. 2022 – Present **B. Sc. (Hons.) Mathematics** KIRORI MAL COLLEGE, UNIVERSITY OF DELHI, DELHI
Majoring in **mathematics** with a minor's degree in **economics**. Current GPA (in %): **82.5**
- Jul. 2020 – Jul. 2022 **Higher Secondary Certificate** P. OBUL REDDY PUBLIC SCHOOL, HYDERABAD
Studied the subjects Physics, Mathematics, Chemistry, Computer Science and English.

RESEARCH PROJECTS

- 2025 ***p*-adic numbers**, Supervisor: Mr. B. Sènthanga
- Learned about the p-adic numbers and their constructions using the p-adic norm.
 - Wrote a report on the p-adic numbers and defined some basic algebra of the p-adic numbers.
- 2024 **Tracing Closed Curves with Epicycles**, Supervisor: Prof. S. K. Kaushik
- In this paper me and my co-authors introduce the fundamental concepts of Fourier series and transforms (continuous and discrete), delving into their mathematical formulations, properties and applications.
 - We also include a python program that performs the discrete Fourier transform to animate tracing of curves.
- 2023 **Big-O Notation**, Supervisor: Prof. S. K. Kaushik
- Learned about the Big O notation, its origins, conceptualizations, and its uses, particularly in studying growth of sequences and in computer science.
 - Wrote a subsequent report on the aforementioned topics.

CORPORATE EXPERIENCE

- Mar. 2023 – Present **Independent & Fractal** FREELANCE FULL STACK DEVELOPER
- Working as a freelance full stack web developer, on **Upwork** and elsewhere.
 - Working as a founding member in the software development and graphic designing freelance organisation, **Fractal**.
- Oct. 2023 – Apr. 2025 **Tagglabs Experimental Pvt. Ltd., Gurgaon** SOFTWARE DEVELOPER (PART-TIME)
- Started as an intern, hired as a part-time worker post completion of internship.
 - Developed a package to implement feature matching with SIFT on Flutter to place persistent markers in real space, employed native C APIs and Open CV libraries.

INDEPENDENT PROJECTS

- 2025 **Drawing My College's Logo on the Complex Plane**
- Implemented the Discrete Fourier Transform algorithm in Python to approximate the fourier series for SVG Paths using the DFT.
 - Used Matplotlib to draw the logo onto the complex plane.
- 2024 **Data Analysis and Visualisation with Pandas**, Course Project
- Worked on a US Housing dataset with the python libraries Seaborn, Pandas and Numpy.
 - Drew statistical inferences using Violin Plot, Scatter Plot, KDE Plot etc.
 - Found correlations between various characteristics of the US Housing market using basic statistical descriptions.

2023	Intersectional Analysis of Bama's Sangati , Course Project	
	<ul style="list-style-type: none"> An intersectional analysis of a portion of the canonical text in Indian Feminist Literature, Sangati by Bama. 	
2021	Behavioural and Statistical Experiment	RANDOMNESS CHALLENGE
	<ul style="list-style-type: none"> Test the ability of users to be random by asking them to click 6 identical buttons in a random fashion. Uses different statistical methods to analyse the data collected, uses a REST API to store data in an Object Relational Database. Made using ExpressJS, ReactJS, Heroku and MongoDB. 	
2021	MERN Stack E-commerce Website	CZ CREATION ONLINE SHOP
	<ul style="list-style-type: none"> A fully fledged e-commerce website for a small business taking their products online. It has user authentication using JWT tokens, CRUD operations like the ability to add items to cart, place orders, forgot password etc. implemented using a REST API. Made using MERN stack, hosted on Heroku. 	
2021	Medicine Tracker Android App	MEDCHECK
	<ul style="list-style-type: none"> An app made using React Native that tracks your medicines for you and warn you whenever a particular medicine is running low. Made using Expo, React Native, SQLite3. 	
2020	Automatic Attendance System using Python and Tesseract-OCR	BREEZE
	<ul style="list-style-type: none"> Enables a teacher conducting a class to take attendance effortlessly in Google Meet using the chat. Made using Python and Tesseract-OCR. 	

SELECTED COURSEWORK

Real Analysis	Complex Analysis	Multivariate Calculus
Abstract Algebra	Numerical Analysis	Linear Programming
Linear Algebra	Probability and Statistics	Financial Mathematics
Metric Spaces	Differential Equations	

EXTRACURRICULAR ACTIVITIES

Feb. 2023 - Present	The Debating Society , Kirori Mal College	MEMBER
Feb. 2023 - Jul. 2023	Tensors, The Mathematics Society , Kirori Mal College	CONTENT CO-HEAD
Nov. 2022 - Nov. 2024	Parivartan, The Gender Forum , Kirori Mal College	JOIN SECRETARY
Feb. 2023 - Nov. 2023	IMPACT Project , a non-profit consulting group	MEMBER
Jul. 2018 - Mar. 2020	Energy Conservation Club , D.A.V. Public School	ORGANISER
	Led the state government initiated Energy Conservation Club in Grade 10 to recognition and merit by the Telangana state government.	

HONORS

2025	Data Storycraft , Symbiosis Center for Information Technology, Pune	1 ST POSITION
2023	Math Me If You Can (Mathematics Quiz) , St. Stephen's College	3 RD POSITION
2020	ALAGS E-MUN (5th Edition) , International Press	HIGH COMMENDATION
2019	ISA Chemistry Scientific Concept Demonstration	1 ST POSITION

SKILLS

- Languages:** Hindi, English, Telugu
- Programming Languages:** Python, Javascript, C++, R, Mathematica, SQL, Dart
- Tools:** Vim, L^AT_EX, Linux, Bash, NodeJS, Flutter, ReactJS, React Native, TallyPrime ERP, Adobe Photoshop