

# Medini Chopra

[Email](#) | [Website](#) | [LinkedIn](#)

## Education

### Ashoka University

Postgraduate Diploma in Advanced Studies and Research in Computer Science

Sonipat, India

Sept. 2023 – May 2024

- Concentration in Performing Arts
- Capstone project on Encoding Multi-modal Features of Songs in Latent Space

### Ashoka University

Bachelor of Science in Computer Science

Sonipat, India

Sept. 2020 – May 2023

- Graduated Magna Cum Laude, awarded Silver Medal for second highest major GPA
- CGPA: 3.89/4.0

## Work Experience

### Undergraduate Teaching Assistant

Ashoka University

Jan. 2022 – Present

Sonipat, India

- Assisted in Intro. to Machine Learning (Fall'23) and Discrete Mathematics (Spring'22)
- Conducted weekly office hours and graded submissions for 75+ students

### Undergraduate Research Assistant

Mphasis Labs for ML and Computational Thinking

May 2022 – Aug. 2022

Sonipat, India

- Co-founded the Centre for Analysis of Network Data and Insight Derivation
- Analyzed the Russia-Ukraine info-war by identifying sentiment and dominant narratives of 500k+ Tweets
- Published our research in the premium offering of ThePrint having a readership of 13Mn+

### Software Development Intern

Amuse Labs

Dec. 2021 – Jan. 2022

Bangalore, India

- Created PuzzleMe's automated test suite for their web-based Quiz using Java and Selenium
- Enhanced performance of 10+ features using browser caching and achieved 15% speed improvement
- Benchmarked methods against the Cucumber tool, proposing it as a scalable software testing solution

### Database Management Intern

Alumni Relations Office, Ashoka University

May 2021 – Aug. 2021

Sonipat, India

- Overhauled the alumni database and reduced record access time for the administration by 92%
- Automated the processing of 2500+ graduate profiles using BeautifulSoup and Selenium with Python

## Projects

### Toxicity on Reddit | Perspective API, Reddit API, Gensim, Jupyter Notebooks

March 2023 – May 2023

- Mined 80k+ comments from select subreddits to compare the toxicity of text
- Trained Latent Dirichlet Allocation to identify narratives, and visualized insights using Matplotlib
- Pursued a healthy online community through data-driven insights from a user survey and literature review

### Interactive Web Application | D3.js, React.js, MongoDB, Node.js, Express.js

January 2023 – May 2023

- Created an interactive web app to graph antimicrobial resistance data and trends
- Integrated two cross-functioning frameworks, React.js and D3.js, allowing for customized graphs
- Collaborated with the Trivedi School of Biosciences to extract real-world insights from Max Hospitals

### NOMAD | React.js, MongoDB, Node.js, Express.js, Git

Nov 2021 – Dec 2021

- Developed a full-stack e-commerce web app for CS-1202 with a REST API and user auth
- Synthesized 400+ data points from TripAdvisor and adopted a Glassmorphism UI design
- Scaled to include additional features including fuzzy search, interactive map, and recommendations

### Indian painting classification | TensorFlow, Keras, and scikit-learn

May 2021 – Dec 2021

- Analyzed 10k images from 20 Indian painting styles to implement feature selection
- Trained a CNN to classify paintings based on Indian Aesthetics Theories
- Applied Selenium for scraping and established a novel dataset for Indian painting classification

## Volunteer and Leadership Experience

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### **President** | *Computer Science Society*

May 2022 – May 2023

- Pioneered a digital literacy program for university housekeeping on Duolingo and PayTM
- Doubled society membership to 30+ by adopting custom community-building strategies
- Organized workshops with 50+ attendees on industry roles and tools for quantitative research

### **Social Media and Design Head** | *RedBrick Hacks*

May 2022 – July 2022

- Led the design team for the university's first-ever inter-collegiate hackathon with 150+ participants
- Utilized Figma to craft the event brand including color palette, typography, and visual assets

### **Marketing and Content Intern** | *Go Girl Org*

May 2021 – August 2021

- Curated scholarships and produced primers on AI encouraging 20+ girls to complete CS50: Intro. to CS
- Conducted free coding workshops for girls with a 60% return rate and ensuring completion of final projects
- Implemented custom marketing and design strategies which successfully increased engagement by 50%

## Awards and Honors

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Deans' List: **2020-2023**

Gold Medal for Academic Excellence: **2019**

Academic Excellence in Physics: **2019**

B.A. in Kathak Dance - First Class Distinction: **2019**

## Technical Skills

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**Languages:** Python, C, JavaScript, HTML/CSS, R

**Tools:** Node.js, MongoDB, Selenium, Git, VS Code, Jupyter Notebooks, R Studio, Figma

**Libraries:** React.js, NumPy, Pandas, Scikit-learn, TensorFlow, Keras, Matplotlib, Seaborn, and NLTK