

# MEDINI CHOPRA

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## EDUCATION

### Northwestern University

*Master's of Science in Computer Science*

Evanston, IL

Sept. 2024 – Dec. 2025

### Ashoka University

*Bachelor's of Science (Hons.) and P.G. Diploma in Computer Science*

Sonipat, India

Sept. 2020 – May 2024

- CGPA: 3.9/4.0, Silver Medal for second highest major GPA

## SKILLS

**Languages:** Python, SQL, C, JavaScript, R

**Tools:** LangChain, PyTorch, Tableau, Node.js, MongoDB, Git, React.js, Scikit-learn, TensorFlow, Figma, JIRA

**Courses:** Natural Language Processing, Machine Learning, Linear Algebra, Probability & Statistics, Algorithms

## WORK EXPERIENCE

### Research Assistant

June 2024 – Aug. 2024

*The Center for Data Science and Analytics*

Remote

- Created a dataset of 190k posts from r/EatingDisorders, expanding research data accessibility by 60%
- Identified a 25% rise in family dynamics discussions by examining time-based trends and fine-tuning LLMs
- Collaborated with a psychologist to achieve 90% accuracy on emotion classification by language model
- Selected to present research at a workshop under the Conference on EMNLP 2024

### Research Assistant

May 2022 – Aug. 2022

*Mphasis Labs for ML and Computational Thinking*

Sonipat, India

- Co-founded the Centre for Analysis of Network Data and Insight Derivation
- Analyzed 500k+ Tweets of the Russia-Ukraine info-war and communicated 5 dominant topics using Matplotlib
- Published research in premium offering of ThePrint having a readership of 13Mn+

### Software Development Intern

Dec. 2021 – Jan. 2022

*Amuse Labs*

Bangalore, India

- Created PuzzleMe's automated test suite for web-based Quiz product by leveraging Java and Selenium
- Enhanced performance of 10+ features with browser caching and attained 15% speed improvement
- Benchmarked methods against the Cucumber tool, presenting it as a scalable software testing solution to the CTO

## PROJECTS

### Spotifeel | *Paper*

January 2024 – May 2024

- Designed and deployed an AI agent for generating playlists based on user prompts and emotional cues
- Achieved 80% accuracy for recommendation model using reinforcement learning and fine-tuning

### Zomato Socials | *Product Requirements Document*

January 2024 – March 2024

- Conceptualized an add-on social feature to the Zomato Gold business model, estimating a 16% revenue increase
- Managed a team of 7 designers and developers to implement user stories and roll out the UI in 3 stages

### GPay Redesign | *UX Case Study*

March 2024 – May 2024

- Redesigned the Google Pay UI to enhance accessibility for low-income merchants constituting 10Mn users
- Conducted qualitative research through observations from 24 key users to refine proposed user interface

### Interactive Web Application | *Paper*

January 2023 – May 2023

- Developed 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 assess data from Max Hospitals and extract insights

## VOLUNTEER AND LEADERSHIP EXPERIENCE

### President | *Computer Science Society*

May 2022 – May 2023

- Pioneered an innovative digital literacy program for university housekeeping on Duolingo and PayTM
- Doubled society membership to 30+ by adopting custom community-building strategies

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

May 2021 – August 2021

- Conducted free coding workshops for girls with a 60% return rate and ensuring completion of final projects
- Implemented custom marketing and design strategies increasing engagement by 50%