

# Ayush Garg

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Senior Computer Science and Math with Data Science student with experience in data modeling, applied machine learning. With skills in PyTorch, quantitative analysis, and python seeking full-time roles in data science, software engineering, or quantitative analytics.

## EDUCATION

**University of Wisconsin – Madison**, *Bachelor of Science in Computer Science, Mathematics with Data Science, Business Certificate.*

**Dean's List**

*Sept 2022-May 2026*

## EXPERIENCES

### Motilal Oswal Financial Services – Data Science Intern

India, June 2025 – Sep 2025

- Conducted applied machine learning research in time-series forecasting for financial datasets.
- Reproduced and benchmarked advanced probabilistic forecasting models including DeepAR (2017), TimeGrad (2021), and TimeMCL (Winner-Takes-All).
- Engineered reproducible pipelines in PyTorch/Lightning and GluonTS, ensuring robust evaluation with metrics such as ND, RMSE, sMAPE, and mean wQuantileLoss.

### Grey B - Data Analysis Intern

India, May 2024 –Aug 2024

- Designed and implemented advanced regression models in scikit-learn, leveraging CPC codes to analyze trends; forecasted filing statistics ahead of publication, providing critical insights that improved strategic planning efforts by 30%.
- Developed and executed a comprehensive visual analytics framework using Seaborn and Matplotlib, providing critical insights that increased project efficiency by 25% and improved data-driven decision-making across various key initiatives.

### Root Analysis - Digital Marketing and Data Analysis Intern

India, June 2023–Aug 2023

- Spearheaded an initiative to enhance site visibility by refining SEO tactics and optimizing 20+ web pages, which contributed to a 30% rise in search engine rankings and improved online presence.
- Established a user feedback-driven development process that integrated insights from 200+ customer interactions, resulting in a more intuitive product that resonated with users and their vision.

## PROJECTS

### LineUp – Location-Based Restaurant Wait Time App

UW-Madison, Oct 2025- present

- Developed Android application using Kotlin and Jetpack Compose to provide real-time wait time information for nearby restaurants, and study places like libraries and cafes all over Madison
- Integrated Google Maps API for location-based search and Google Places API for restaurant data retrieval and navigation.
- Implemented user preferences system with SharedPreferences for persistent data storage and category filtering.
- Technologies: Kotlin, Jetpack Compose, Google Maps/Places API, Android SDK

## ACTIVITIES

### Orlina Ventures - Customer Service Associate

India, April 2020–April 2022

- Designed and executed a series of interactive presentations about COVID-19 safety protocols, resulting in a 30% improvement in compliance among attendees, as measured by follow-up evaluations within three months.
- Planned and led a successful tree plantation drive involving 600+ saplings, partnering with a campsite owner and coordinating with local communities for sustained upkeep along with food distribution in the lockdown.

## SKILLS

- **Data Science** – Pytorch, Scikit-learn, Seaborn , Power BI
- **Programming** – Python, SQL, Java
- **Math** - Linear Algebra, Statistical Analysis, Probability