

AYUSH GARG

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SUMMARY

Computer Science and Mathematics (Data Science) student with hands-on experience in time-series forecasting, probabilistic modeling, and analytics across finance, marketing, and technology. Experienced in building reproducible data pipelines, and translating complex data into actionable insights using Python, SQL, and other modern tools. Seeking analyst roles focused on data-driven decision making and measurable business impact.

EDUCATION

University of Wisconsin-Madison

Sep 2022 - May 2026

Bachelor of Science, Computer Science & Mathematics (Data Science)

- **Achievements:** Dean's List (Spring 2024)
- **Coursework:** Machine Learning, Statistical Modeling, Probability & Inference, Applied Linear Algebra, Data Science Programming, Numerical Linear Algebra, Database Management Systems (SQL), Accounting, Microeconomics

PROFESSIONAL EXPERIENCE

Motilal Oswal Financial Services

Jun 2025 - Sep 2025

Data Science Intern

India

- Developed and evaluated time-series forecasting models for financial datasets using statistical-modeling techniques, delivering insights that informed market-trend analysis and reduced uncertainty in portfolio planning
- Built reproducible data pipelines and model evaluation workflows using Python and SQL in PyTorch/Lightning and GluonTS with robust evaluation metrics (ND, RMSE, sMAPE, mean wQuantileLoss) enabling team to support model comparison and planning decisions
- Benchmarked probabilistic forecasting approaches (DeepAR, TimeGrad, TimeMCL) and compared performance across multiple metrics to identify reliable methods for trend analysis and scenario evaluation

Grey B

May 2024 - Aug 2024

Data Analysis Intern

India

- Designed and implemented regression-based forecasting models with scikit-learn and SQL on CPC patent classification data, producing trend analyses that guided technology-filing strategy across multiple domains
- Developed interactive dashboards using Tableau and Matplotlib for business teams to track and forecast patent activity ahead of publication, improving decision-making speed
- Delivered insights on emerging technology areas, enabling clients to support strategic planning

Root Analysis

Jun 2023 - Aug 2023

Digital Marketing & Data Analysis Intern

India

- Analyzed website performance metrics and SEO data to improve search visibility and user acquisition across multiple web pages, leading to 30% improvement in search engine rankings
- Conducted user feedback analysis from 200+ customer interactions to identify usability issues and inform product and content improvements
- Collaborated with marketing team to translate analytics into actionable recommendations for digital strategy using Tableau dashboards

PROJECTS

LineUp – Location-Based Restaurant Wait Time App

Oct 2025 - Dec 2025

- Designed a crowdsourced wait-time analytics system to help students make real-time dining decisions using location-based data
- Analyzed system performance and user behavior to diagnose data staleness and latency bottlenecks impacting trust
- Implemented performance optimizations using API batching, parallel calls, caching and time-based data expiration
- Reduced end-to-end data latency and load times by 50%, improving data freshness and decision reliability for users
- Technologies: Kotlin, Jetpack Compose, Firebase, Google Gemini AI, Google Maps/Places API, MVVM, Android SDK

LEADERSHIP & ACTIVITIES

Orlina Ventures

Apr 2020 - Apr 2022

Customer Service Associate

- Designed and delivered interactive awareness programs using data-driven messaging to improve adoption of COVID-19 safety practices
- Coordinated and tracked a large-scale tree plantation initiative (600+ saplings), monitoring participation and long-term community engagement

TECHNICAL SKILLS

- **Data Science & Analytics Tools:** Python, SQL, Scikit-learn, PyTorch, Pandas, NumPy, Seaborn, RStudio
- **Business Intelligence & Visualization:** Power BI, Tableau, Matplotlib
- **Programming Languages:** Java, Kotlin, Javascript
- **Statistical Methods:** Regression, Time-Series Forecasting, Statistical Modeling