

ROSHNI GUHA

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EDUCATION

University of Wisconsin - Madison, WI, USA

September 2024 - Expected May 2028

Bachelor of Science in Computer Science and Certificate in Business, interested in B.S Mathematics

Cumulative GPA: 3.9/4.0 | Dean's List

Relevant Coursework: Object-Oriented Programming and Data Structures (Java), Linear Algebra, Discrete Mathematics, Artificial Intelligence, Matrix Methods in Machine Learning, Engineering Statistics (R), Computer Engineering (Assembly)

PROFESSIONAL EXPERIENCE

Royal Bank of Canada Wealth Management

Madison, WI

Project Intern

September 2025 - Present

- Working as a team of 3 to build an AI-assisted research analyst tool that integrates financial APIs (Yahoo Finance), sentiment feeds (Reddit, X), and financial news aggregators to automate equity research workflows for portfolio managers.
- Built a functional MVP in Python/Streamlit that retrieved, summarized, and visualized multi-source insights (fundamentals, earnings surprises, sentiment, and technical indicators) within seconds, reducing manual research time by over 50%.

Department of Computer Sciences

University of Wisconsin-Madison, USA

Peer Mentor - Programming II

June 2025 - Present

- Help 600+ students understand object-oriented programming, data structures, recursion, and algorithm complexity during office hours and support development of debugging skills during the development of complex weekly projects.
- Facilitate problem-solving, control flow, functions, debugging, and foundational coding practices in Java during office hours.
- Promoted after successfully tutoring Programming I class over the summer, leading 4 labs and office hours for 45 students with minimal programming experience in concepts such as control flow, data types, functions and debugging.

CapitalFund Investment Team

Hawk Center for Investment Analysis, UW Madison

Undergraduate Researcher - Quantitative Finance

September 2025 - Present

- Support development of strategies for managing a portfolio of \$1M+ as a part of a student-managed CapitalFund Investment Team using Interactive Brokers and automated trading tools.
- Build and refine the production tech stack and data flow, getting Model State into Optimized Positions for live execution.
- Lead model building efforts by preprocessing financial data, analyzing factors, and designing optimized data-driven models.

Al Khayat Contracting LLC

Dubai, UAE

Summer Data Analyst Intern

July 2023 - July 2023

- Assisted senior data analysts in compiling and interpreting payment, construction, and tender data, directly contributing to more efficient data workflows and enabling reducing turnaround times ~20% on critical reports.
- Cleaned and prepared reports in MS Excel for who is using reports, what are they showing?

CERTIFICATION

IIT Kanpur Machine Learning

August 2025

Mastered design, implementation, and evaluation of supervised and unsupervised ML models in Python, including regression and clustering techniques. Applied model interpretability tools (SHAP, LIME) for and delivered end-to-end ML solutions.

PROJECTS

UW Match

September 2025 - Present

Python, AI APIs, Svelte, FastAPI, MongoDB, Node.js (<https://www.uwmatch.com>)

- Built a course search platform with 350+ users, featuring a 4-year planner, grade distribution, demographic breakdowns, RateMyProfessor links, AI-generated discussion summaries, prerequisite tracking, and similar course suggestions.
- Leading ML integration on a 5-person team, developing recommendation models based on user interests, course popularity, and completed courses to improve personalized discovery.

Smoking Habit Predictor

August 2025

Python, Pandas, Matplotlib, Scikit-learn, Numpy ([Github](#))

- Preprocessed health dataset and applied ML models (Decision Tree, KNN, Naïve Bayes, SVM) to classify smoking status.
- Achieved ~76% accuracy with SVM using 10-fold cross validation; evaluated impact of feature scaling and visualized correlations and model performance with Matplotlib.

SKILLS

Languages & Tools: Python, Java, R, FastAPI, Node.js, Numpy, Pandas, Matplotlib, Scikit-learn, Tkinter, Microsoft Office

Concepts: OOP, Data Structures, Machine Learning (SVM, k-NN, Regression, NB), Forecasting

Techniques: Data Analysis, Data Visualization, Model Evaluation (SHAP, LIME)