

Contact

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Top Skills

Machine Learning

Deep Learning

C (Programming Language)

Languages

German (Elementary)

Telugu (Elementary)

Hindi (Professional Working)

Kannada (Native or Bilingual)

English (Full Professional)

Kushala Rani Talakad Manjunath

MS in Applied Mathematics | Civil Engineering
Boston, Massachusetts, United States

Summary

I'm a graduate student from Northeastern University with an MS in Applied Mathematics, building on my foundation in Civil Engineering. I combine quantitative analysis with practical problem-solving to tackle real-world challenges.

My passion lies in working with data building models, uncovering patterns, and turning complex information into meaningful insights. I'm proficient in Python, R, SQL, and machine learning, with a strong foundation in statistics and computational methods. My engineering background gives me unique perspective on infrastructure projects, spatial analysis, and built environment challenges, while my mathematical training ensures analytical rigor.

I'm drawn to opportunities where data analysis drives decision-making, whether it's forecasting trends, assessing risk, analyzing geospatial data, optimizing systems, or supporting infrastructure planning and development. I enjoy projects that blend technical analysis with practical applications, from financial modeling to engineering solutions.

Beyond academics, I'm committed to STEM education, having mentored over 100 high school and undergraduate students. This experience has strengthened my ability to explain complex ideas and work effectively with diverse teams.

I'm actively seeking opportunities to apply my analytical and engineering skills in environments that value data-driven insights and collaborative problem-solving. If you're tackling challenging questions that need mathematical, analytical, or engineering approaches, let's connect!

Experience

Northeastern University

8 months

Administrative Assistant

April 2025 - August 2025 (5 months)

Boston, Massachusetts, United States

- Managed and optimized resource use for a 6-week STEM summer program serving 100+ underrepresented students by Coordinated scheduling, communication, and logistics for Bridge to Calculus classes, tutoring sessions, and faculty meetings to ensure smooth program operations.
- Supported the hiring and onboarding process for summer interns and mentors, guiding candidates through application and acceptance procedures.
- Managed program communications by drafting and distributing emails to faculty, students, and mentors; maintained organized records and correspondence.
- Assisted in planning and execution of key events such as Calculus Field Day, AP Exam prep sessions, and R workshops.
- Served as a mentor to students, providing academic and logistical support while collaborating closely with program coordinators and instructors.
- Utilized tools such as Microsoft Office Suite (Word, Excel, PowerPoint, Outlook), Google Workspace, Adobe Acrobat, and Excel/Sheets for data tracking and reporting.

Teaching Assistant

January 2025 - April 2025 (4 months)

Boston, Massachusetts, United States

Worked as Teaching Assistant for MATH4025 - Applied Mathematics Capstone. I helped students with the course project by supporting them in file extraction, coding, and reviewing their reports and presentations.

Education Mentor

March 2025 - March 2025 (1 month)

Boston, Massachusetts, United States

I attended an R/Data Science Workshop for high school students, aimed at introducing them to R and R Studio. I assisted students with downloading

the software, the basic computations, handling datasets, and creating visualizations.

Northeastern University

Event Assistant

November 2024 - November 2024 (1 month)

Boston, Massachusetts, United States

- I served as an Event Assistant for a workshop on "AP Pre-Calculus and Transition to College Mathematics."
- The keynote address was delivered by Deb Hughes Hallett, a Mathematics Professor at the University of Arizona and a Public Policy Professor at the Harvard Kennedy School. She was also the recipient of the '2022 AMS Award for Impact on Teaching and Learning Mathematics.'
- The workshop was attended by Mathematics Professors from Northeastern University, PhD students who are educators, and Math educators from Boston Public Schools.
- The event fostered interactive discussions on strategies to enhance high school students' understanding of mathematical concepts, emphasizing the significance of math proficiency for college admissions.

Northeastern University

Student Mentor

June 2024 - August 2024 (3 months)

Boston, Massachusetts, United States

- Worked as a mentor in Precalculus for High School Students in Northeastern University.
- Involved in mentoring for Project Math and Math for Biology and Chemistry.
- Carried out various projects in Math, Biology and Chemistry, also helped in working NetLogo Web to come up with Models for Biology.

Public Works Department (PWD)

Management of Road Construction Works Intern

August 2022 - September 2022 (2 months)

Mysore, Karnataka, India

- Participated in on-site management of road and park construction activities for a month in Mysore, India.
- Handled multiple phases of bituminous road construction, including base preparation, applying bituminous coating, laying the bituminous mix, and compacting the surface with rollers.

- Assisted with the installation of kerbs, pavements, and road studs for markings.

Education

Northeastern University

Master's degree, Applied Mathematics · (January 2024 - May 2026)

JSS SCIENCE AND TECHNOLOGY UNIVERSITY

Bachelor of Engineering - BE, Civil Engineering · (July 2019 - July 2023)