

Tuba Siddiqui

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EDUCATION

SIMMONS UNIVERSITY

Bachelor of Computer Science

Minors in Mathematics and Data Science, GPA: 3.4/4.0

Relevant Coursework: Data Structures, Operating Systems, Database Management, Practical ML, Discrete Math, Calculus I & II

Commit 12 hours bi-weekly to Simmons Model UN

Boston, MA

Expected May 2027

TECHNICAL SKILLS & PROJECTS

Programming: Java, Python, R, SQL, MATLAB, C, C++, HTML

Tools & Design: VS Code, R Studio, Blue J, Jupyter Notebook, GitHub, Kaggle, Linux

MathWorks AI Studio - Predictive Motor Fault Detection(Collaborative project, 4 team members) Sep 2024 - Dec 202
Engineered ML models predicting induction motor faults; preprocessed noisy data; achieved 87.5% KNN accuracy.

WiDS Datathon 2025 (Kaggle Competition, MIT Break Through Tech AI Program) Jan 2025 - Apr 2025
Collaborated with a 4-member team to develop, validate, and optimize multi-output models predicting ADHD diagnosis and participant sex from fMRI and survey data, minimizing bias and delivering interpretable, high-performance results.

Oscar Awards Prediction - STATS 228 Mid-Term Project Apr 2025
Analyzed 11,000+ Academy Award records (1927-2025) using R (tidyverse, caret, rpart); built classification tree (~79% accuracy) to predict high-nomination films; evaluated feature importance and dataset limitations.

RELEVANT EXPERIENCE

BREAK THROUGH TECH AI PROGRAM, @ MIT & CORNELL TECH

Participant

Boston, MA

May 2024 - Apr 2025

- Selected for a competitive 12-month program in AI, ML, and data science.
- Completed summer intensive on ML libraries; delivered applied AI projects with peers and industry mentors.

HOLMES SPORTS CENTRE, SIMMONS UNIVERSITY

Customer Service Associate

Boston, MA

Dec 2023 - Present

- Manage front desk operations, memberships, and program registrations for students, faculty, and community members.
- Enforce facility policies and oversee daily operations, ensuring a safe, inclusive, and professional environment.
- Serve as the first point of contact for inquiries and incidents, resolving issues with efficiency and discretion.

SIMMONS SUMMER CONFERENCES, SIMMONS UNIVERSITY

Summer Conference Assistant

Boston, MA

May 2024 - Aug 2025

- Coordinated check-in/out, room logistics, and registration for 10–300 participants; tracked all tasks and schedules using spreadsheets and Excel.
- Provided on-call support during emergencies, evenings, and weekends; optimized residence hall operations and inventories.

LEADERSHIP

GIRLS INC. OF BOSTON

Simmons University Chapter - Mentor & Board Member

Boston, MA

Sep 2024 - Present

- Mentor middle school participants, enhancing confidence, academic motivation, and leadership skills.
- Built supportive relationships that empowered youth and motivated personal growth.

SIMMONS CDMS E-BOARD

DE&I Contributor

Boston, MA

Sep 2025 - Present

- Organize events connecting CDMS students with faculty, alumni, and industry professionals while providing career-relevant resources and development opportunities.
- Foster community and bridged gaps between students, faculty, and the broader Simmons network.