Raasikh Kanjiani

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EDUCATION

Emory University Atlanta, GA
Bachelor of Science in Computer Science, Minor in Mathematics *Aug. 2023 – May 2026*

University of Georgia Athens, GA
Bachelor of Science in Computer Science, New Media Certificate *Aug. 2022 – May 2023*

Coursework: Artificial Intelligence, Machine Learning, Data Structures and Algorithms, Multivariable Calculus, Linear Algebra, Systems Programming, Computer Architecture.

Programming Languages: Python (Proficient), Java (Proficient), Swift (Intermediate), C (Intermediate), R (Intermediate), Unix/Linux (Proficient), Emacs, Objective-C, Assembly, JavaScript, SQL, Lua, Latex.

EXPERIENCE

Technical Research Intern June 2024 – Present
NSF REU at Emory University *Atlanta, GA*
- Developing a literature survey generator, utilizing graph data of 690,000+ papers and 10,000+ reviews.
- Implementing a RAG-based querying system to extract relevant data from papers for survey generation.
- Adapting recently published models and researching metrics to compare and quantify the model's performance.

Publication: Zhu, M., **Kanjiani, R.**, et al. (2024). LatentExplainer: Explaining latent representations in deep generative models with multi-modal foundation models. [Submitted to EMNLP 2024]

App Development Intern Jan. 2024 – May 2024
USA Boccia *Remote*
- Built an internationally compliant game-keeping iOS app to streamline 500+ annual Boccia games using Swift.
- Constructed a back end using the Core Data framework to efficiently save and restore match history data locally.
- Designed a scoreboard UI to be cast onto external displays, simplifying match tracking for 7500+ viewers.

ArcGIS Mapping Intern Aug. 2022 – May 2023
The State Botanical Garden of Georgia *Athens, GA*
- Automated plotting of 11,047 taxa into an ArcGIS map by devising new data collection and organization methods.
- Decreased data logging time by 90% by engineering a data pipeline using Python and the OpenPyXL library.
- Supervised a team of three in collecting new field data for 300+ flowers, facilitating the visits of 230,000+ visitors.

PROJECTS

Museum Artifact Description Debiaser | *Python, Transformers, PyTorch, React, Django* June 2024 – Present
Project Lead
- Fine-tuning Google's BERT model to detect language bias and jargon in artifact descriptions with 83% accuracy.
- Creating a custom ChatGPT chatbot to help the staff replace biases with inclusive language before publication.
- Developing a full-stack web application using React and Django to showcase the model pipeline and findings.

Gran Turismo 7 Race Predictor | *Python, Swift, Sklearn* May 2024 – Present
Personal Project
- Training a Naive Bayes classifier to predict final race positions with 70% accuracy in the Gran Turismo 7 game.
- Designing a data pipeline to stream live game data from the console to the app every millisecond for predictions.

LEADERSHIP

Student Advising Leader Apr. 2023 – June 2024
Matriculate *Remote*
- Achieved 20% higher advisor applications than the previous year through personalized email and SMS outreach.
- Organized workshops and meetings to personally help 3 students write college essays and apply for financial aid.

HONORS AND CERTIFICATIONS

NSF Grant Recipient, National Name Exchange Member, Presidential Scholar (1 Semester), Dean's List (1 Semester), International Baccalaureate Diploma Recipient, Honors Diploma Recipient.