Arjun Kantamsetty

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EDUCATION

Tufts University   Medford, MA
Bachelor of Arts in Computer Science, Minor in Mathematics   *Expected May 2025*
- GPA: 3.6
- Relevant Coursework: Algorithms, Data Structures, Machine Learning, Probability, Statistics, Machine Structure and Assembly Language Programming

EXPERIENCE

Undergraduate Research Assistant   May 2024 – Present
Tufts University   *Medford, MA*
- Engineered a Retrieval-Augmented Generation (RAG) model to streamline evidence-based persuasive writing, empowering writers with precise and compelling argumentation tools.
- Investigated human overtrust in AI-generated content and explored methodologies to mitigate this phenomenon through our system.

Undergraduate Research Assistant   Oct. 2022 – Oct 2023
Tufts University   *Medford, MA*
- Developed a Support Vector Machine (SVM) model using Python and scikit-learn to classify chess puzzles by difficulty, optimizing hyperparameters to achieve 85% accuracy.
- Conducted Linear Mixed-Effects Regression (LMER) and ANOVA analyses on EEG data using R, interpreting and summarizing findings in a peer-reviewed paper awaiting publication in the ACM CHI conference.

Frontend Intern   May 2022 – Aug. 2022
Kairos Technologies   *Las Colinas, TX*
- Increased website traffic by 30% through a comprehensive upgrade of site features given detailed client feedback and user behavior analysis.
- Collaborated with engineers and designers to develop innovative features and optimize website layout, enhancing user engagement and functionality.

PROJECTS

sublettr.homes | *React, Typescript, MongoDB, Prisma, Vercel*   Jun. 2023 – Present
- Deployed a 20,000-line web application in collaboration with another student, utilizing cloud-based storage solutions to address housing needs for 150 Tufts students, enhancing their housing search.
- Received recognition from Boston-area entrepreneurs, leading to participation in entrepreneurship conferences.

JumboCode — Lantern Club | *Prisma, Tailwind CSS, MongoDB, TypeScript*   Jul. 2023 – Aug. 2024
- Led the team of backend developers in building a comprehensive website for an STS magazine at Tufts, meeting editorial and user requirements.
- Boosted attendance at in person meetings by 50% and submissions to the magazine by 20% through strategic improvements and marketing through JumboCode program.

movierecs | *Python, scikit-learn, Pandas, Matplotlib*   Apr. 2024 – May 2024
- Built a recommendation system combining content-based and collaborative filtering, using SVD-derived vectors and additional features, and evaluated it with the AUC score for optimized recommendations.
- Wrote comprehensive documentation and implemented a robust setup for maintaining code quality, resulting in improved codebase consistency.

arganalyzer | *Hugging Face, PyTorch, Flask, HTML, CSS*   May 2024 – Jun. 2024
- Coded an application to leverage a pre-trained BERT model to evaluate and score the quality of arguments.
- Authored comprehensive documentation to ensure ease of use and seamless onboarding for future developers.

TECHNICAL SKILLS + INTERESTS

Languages: Python, C++, JavaScript
Frameworks: Flask, React, Prisma
Libraries: PyTorch, Pandas, Matplotlib, scikit-learn
Interests: Chess, Poker, Bhangra