

Adhitya Thirumala

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EDUCATION

University of Illinois Urbana-Champaign	2024-Present
<i>Major: Computer Science + Linguistics</i>	<i>GPA: 4.0/4.0</i>
Fox Chapel Area High School	2020-2024
	<i>GPA: 4.32/4.0 (Top 10%), SAT: 1550 (790 Math, 760 EBRW)</i>

RELEVANT COURSEWORK

College: CS 124 Honors, MATH 241 (Calculus III)
High School: Linear Algebra, Data Structures and Algorithms, AP Computer Science A (5), AP Physics C: Electricity and Magnetism (5), AP Calculus BC(5), AP Calculus AB(5), AP Physics C: Mechanics (4)

SKILLS

Languages: Python, Java, HTML, Bash, \LaTeX , YAML, TOML, SQL, Go, C, C++, Lua, Javascript, Typescript, CSS
Tools: Git/GitHub, Github Actions, Vim, Huggingface, Linux, Maven, Gradle, SQLite, Docker, PostgreSQL, Vercel
Libraries: pandas, NumPy, Matplotlib, Tensorflow, pyTorch, Sci-Kit Learn, Swing (Java), Spring (Java), Next.JS, React, Flask

PROJECTS

matched.lol | *Java, PostgreSQL, Spring, Javascript, Typescript, HTML, CSS, Next.JS, React* September 2024 - December 2024

- Lead full-stack developer for web/mobile application to match League of Legends players together based on preference
- Developed a RESTful API using Spring Boot to handle user requests
- Utilized Serverless PostgreSQL to store user data and preferences
- Implemented OAuth2.0 for user authentication with Discord and Riot Games
- Created landing page to inform users of future updates using NEXT.JS and React
- Hosted landing page on Vercel at matched.lol

Clickbait Classification and Spoiling Using NLP (arXiv) | *Python, Torch* Oct 2022 - May 2023

- Developed natural language processing models to classify and spoil clickbait
- Utilized Large Language Models and prompt engineering alongside traditional transformers models to generate spoilers
- Results submitted to *The 17th International Workshop on Semantic Evaluation: Toronto, Canada 2023*
- Mentored by Dr. Elisa Ferracane

Extractive Question Answering on Queries in Hindi and Tamil (arXiv) | *Python, Torch* Oct 2021 - May 2022

- Developed Extractive Question Answering (QA) models in Tamil and Hindi with public dataset
- Improved performance of such models as compared to gold-standard by over 20% in both Hindi and Tamil
- Modified RoBERTa tokenizer to accept input in Hindi and Tamil to minimize need for data and training
- Received 26th Annual Senior Division Carnegie Science Award presented at annual Gala to fundraise for Carnegie Science Center and to honor Pittsburgh's scientists and researchers
- Mentored by Dr. Elisa Ferracane

WORK EXPERIENCE

Private Debate Coaching | *Freelance* 2024 - Present

- Conducted 4-6 hours of research weekly for national circuit debate competitors from Whitney M. Young Magnet High School, Gunn Senior High School, and Edison College Preparatory High School.
- Met to teach important debate skills and review past tournament performance twice a week
- Coached five teams to first-time elimination round finishes and championed round robin invitational tournament at the University of Michigan

ACTIVITIES

Clubs: Association for Computing Machinery, GNU/Linux User Group, Illini Speech and Debate, SIGNLL (ACM NLP Special Interest Group)

MISCELLANEOUS

High School Clubs: Speech and Debate (President), Science Fair (President)
High School Awards: 2x State Championship Policy Debate, NMSQT Finalist, Broadcom MASTERS Top 300, Premier Distinction NSDA Honor Society, Presidential Volunteer Service Bronze Award, Presidential Volunteer Service Gold Award