Adhitya Thirumala

https://github.com/adhi-thirumala linkedin.com/in/adhitya-thirumala adhit2@illinois.edu adhithirumala.com

EDUCATION

University of Illinois Urbana-Champaign 2024-Present
Major: Computer Science + Linguistics

Fox Chapel Area High School 2020-2024
GPA: 4.32/4.0, SAT: 1550 (790 Math, 760 EBRW)

RELEVANT COURSEWORK

College: CS 124, CS 124 Honors, LING 100, 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
Tools: Git/GitHub, Github Actions, VS Code, Huggingface, Linux, Maven, Pip, Prompt Engineering
Libraries: pandas, NumPy, Matplotlib, Tensorflow, pyTorch, Sci-Kit Learn, Swing(Java)

PROJECTS

Clickbait Classification and Spoiling Using Natural Language Processing | *Python, pyTorch* October 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
- Published to arXiv: arXiv:2306.14907
- Mentored by Dr. Elisa Ferracane

Extractive Question Answering on Queries in Hindi and Tamil | *Python, pyTorch* October 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
- Modified RoBERTa tokenizer to accept input in Hindi and Tamil to minimize need for data and training
- Published to arXiv: arXiv:2210.06356
- 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

S.W.I.F.T.: Surveillance With Intelligent Field Technology | *Python, Tensorflow* September 2020 - May 2021
- Created machine learning classifier that can detect the presence of certain bird species (such as chimney swifts) in an image
- Utilized openCV and Tensorflow to create machine learning models

Java Jackpot Fox Den Casino | *Java, Swing, Maven* May 2024
- Created Baccarat Game for Data Structures and Algorithms class
- Features included accurate baccarat game, persistent scoreboard, and HTML Client utilizing Random.org API for true-random Casino mechanics.
- Hosted source code on Github
- Presented project in front of district administration as part of in-classroom enrichment opportunity

WORK EXPERIENCE

Private Debate Coaching 2024 - Present
Conducted research for national circuit debate competitors from Whitney M. Young Magnet High School. Taught important debate and research skills. Coached students to high level places at competitive national circuit tournaments.

Kumon | *Assistant for Center Operation - Fox Chapel Center* 2021 - 2024
Successfully improved the self-initiated learning abilities of students (Pre K-9) in language arts & math (arithmetic-calculus). Graded students' daily work and tutored students through concepts.

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