Fremont, CA / Richardson, TX
adityar.me

ADITYA RATHOD

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EMPLOYMENT

Research Intern — **Center for Engineering Innovation, UT Dallas** — **Aug. 2019 – Present**

- Working on environment infrastructure for AI novelty in Java and Python, as part of lab's participation in DARPA's SAIL-ON initiative
- Learned collaborative development using tools such as JIRA and GitHub

Undergraduate Researcher — **UT Dallas** — **Jun. 2019 – Aug. 2019**

Clark Summer Research Program

- Built sequence-to-sequence LSTM model for abstractive news summarization in Keras/TensorFlow.
- Scraped and parsed novel dataset of 25k articles using Python Requests/BeautifulSoup
- Presented findings at poster symposium with department leaders and faculty in attendance

STEM Instructor — **Impressive Minds Academy** — **Jul. 2017 – May 2019**

- Introduced class of 12-14 students aged 8-13 to the basics of LEGO robotics and Python programming

EDUCATION

Richardson, TX — **University of Texas - Dallas** — **Aug. 2019 – May 2023**

- B.S. in Computer Science; sophomore standing by credit hours; graduating Spring 2023. **GPA: 3.87**
- Undergraduate Coursework: AP CS A (Java), Programming II (C++), Discrete Math I & II, Data Structures & Algorithmic Analysis, Probability and Statistics for CS, Differential & Integral Calculus

TECHNICAL EXPERIENCE

Projects

- **Kilobit** (ongoing). Working on fast, highly scalable Twitter clone, with API to conduct experiments in bot-to-bot interaction. *React, Redux, Next.js, MongoDB, Express, NodeJS*
- **Accepted** (ongoing) Developing a platform connecting HS seniors to college students who have experience with the application process. Online survey of 600 students revealed intense interest in such a platform.
- **Credit Card Fraud Detection** (Summer 2019). Developed credit-card fraud detection classification model. Achieved 99.94% accuracy and learned how to deal with skewed data. *Python, TensorFlow, Keras*
- **Liform** (Summer 2019). Built web application + backend to allow users to compare costs for medical treatments across multiple providers. Wrote rudimentary ETL pipeline in plain Python to extract price data from spreadsheets and write to database. *React, Next.js, MongoDB, Python, Pandas, Flask*
- **FLEX** (2018-2019). Created web app + REST API for high school office hours scheduling. 80 monthly recurring users at peak. *Vue.js*, *NodeJS, Express*

ADDITIONAL EXPERIENCE AND AWARDS

- **National Merit Scholar**: Awarded to top 1% of 1.5 million graduating high school students in the US
- Earned certificate for successful completion of Coursera Machine Learning course

Languages and Technologies

- Full-stack web development with React, Redux, Next.js, NodeJS, Express, MongoDB
- Python with Pandas, NumPy, Keras/TensorFlow, for data processing and analysis
- Fundamentals of Machine Learning (Regression, Decision Trees, Neural Networks, CNNs, RNNs)
- Hands-on experience with Matlab/Octave, Java, C++, Linux