Anish Lakkapragada

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Education

Yale University New Haven, CT

Bachelors of Sciences in Computer Science and Mathematics *GPA: 4.0*

- Relevant Coursework: Linear Algebra (Intensive), Probability Theory, Calculus III, Data Structures & Algorithms
- Clubs: Yale Student Birding Association (Board Member), Yale South Asian Society, Intramural Flag Football

Work Experience

alphaXiv, startup backed by former Google CEO Eric Schmidt Jun 2024 – Present

Founding Engineer *New York, NY*

- Led migration of API to a containerized AWS Lambda function to reduce latency by 50%
- Ideated and developed Chrome Extension with 4000+ users to increase user retention
- Expanded frontend/backend with React.js, MongoDB Atlas, and Express across multiple 1000+ LOC files
- Used AWS CloudWatch, AWS SQS, and SQL to track user growth across table with 30M+ rows

Booz Allen Hamilton, Internal AI Team Jun 2024 – Present

Machine Learning Researcher (Part-Time) *Annapolis Junction, MD*

- Read 20+ papers on the state of adversarial machine learning, data poisoning, and model vulnerabilities
- Implemented data poisoning attack defense for internal Booz Allen AI adversarial machine learning toolbox

Booz Allen Hamilton, U.S. Air Force Research Lab Team Jun 2023 – Oct 2023

Machine Learning Researcher *Annapolis Junction, MD*

- Youngest-ever high-school research intern, position historically held by undergraduate & graduate students
- Improved accuracy in the detecting out-of-distribution data; Ran 100+ experiments for testing different methods
- Presented findings weekly to the client (AFRL) and published findings in workshop at CVPR 2024

Stanford University, Wall Lab Jun 2021 – Jan 2023

Research Intern *Palo Alto, CA*

- Developed novel machine learning techniques to support early detection of autism
- Improved the the performance of multi-task learning models, which are common on mobile devices
- Published papers at JMIR and AAAI 2023

Selected Projects

GenAlt: Chrome Extension for improving web accessibility for visually impaired Dec 2021 – Present

- Developed browser extension to generate image descriptions with AI for visually impaired users
- Currently used by 3200+ Blind & Visually Impaired users in 100+ countries
- Recognition: U of Delaware's Diamond Challenge ($1750), Arkansas School for the Blind, U.S. IAAF '23 conf.

Lynbrook Job Shadow Tech Team, Lead Developer Jun 2023 – Apr 2024

- Led team of 10+ to develop full-stack platform for my school to administer school's Job Shadow program
- Platform successfully matched 300+ students to job shadow opportunities provided by 80+ companies

SeaLion: Machine Learning Library implemented from scratch, Developer Nov 2020 – Apr 2021

- Learned mathematical theory of 20+ ML algorithms and implemented them from scratch in Python framework
- Used Cython to accelerate algorithm runtimes, regardless of user's operating system
- 2,000+ unique downloads, 15,000+ views on GitHub, 300+ stars on GitHub

Awards & Recognition

- Youngest-ever speaker at Databricks Data + AI Summit 2022 in conference's 9-year history
- 30+ citations across 4 first-author published workshop papers (at CVPR '24, NeurIPS '23, AAAI '23, JMIR)
- National Merit Finalist $2500 Scholarship and Lynbrook High School W & Y Foundation $4000 Scholarship
- 4.7M+ views and 18K+ views on Unsplash for my bird photographs

Technical Skills

Languages and Frameworks: Python, TypeScript, HTML/CSS, C++, Java, Cython, PyTorch, TensorFlow, Next.js
Backend: AWS, Docker, MongoDB, PostgreSQL, SQL, FastAPI, Express, Linux Services