

ADITYA RAMESH

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Education

University of Illinois at Urbana-Champaign

Bachelor of Science in Statistics and Computer Science

Expected May 2027

Urbana-Champaign, IL

Adlai E. Stevenson High School

Illinois State Scholar, National Merit Finalist, AP Scholar with Distinction

June 2019 - May 2023

Lincolnshire, IL

Relevant Coursework

- Intro to CS I and II
- Discrete Structures
- Linear Algebra
- Calculus III
- Statistical Analysis
- Statistics + Probability I

Experience

University of Illinois at Urbana-Champaign

CS 124 Course Assistant

January 2024 – Present

Urbana-Champaign, IL

- Maintain on call for Tutoring for CS124, UIUC's Introduction to Computer Science Course
- Engaged in discourse and tutoring with 100+ Students in Kotlin over the span of the semester.
- Served as a point of contact for course feedback and development for Senior Staff, improving pedagogical standards.

University of Illinois at Urbana-Champaign

Technology Services OnSite Consultant

August 2023 – Present

Urbana-Champaign, IL

- Provided technical troubleshooting and diagnosis for faculty, students, and retirees with sub 48-hr response rate.
- Served as a primary-lead for UIUC's Student Technology Loan Program.
- Responded to networking setup/configuration, asset management requests, disk/file restoration, virus removal, operation/software installation, and device administration.

Projects

Crop Classification Service

February 2024

- Developed a KNN Classification Model in Python using Pandas and Scikit-Learn to identify and evaluate 22 Crops' compatibility with an different environments.
- Feature cleaned, scaled, and engineered dataset to train model on Temperature, pH, and Humidity
- Incorporated with React Web App for user-defined environment parameter submission to API endpoint using Flask.

Stock Prediction Platform

November 2023

- Developed a Tensorflow Keras LSTM Model using Python for time-series prediction fo a stock's performance, accounting for Look-Ahead Bias at near 61% Accuracy.
- Called the Alpaca Trading API to retrieve and parse stock closing values on an hourly basis, cleaning and scaling 8 years of training data using Pandas and Numpy.
- Integrated using Django and SQLite to output a graph of a stock's performance and its predicted close values on a Web Application.

Research Analysis between Gross National Income and Internet Access

May 2023

- Employed Hypothesis Test for Regression Slopes, selecting data from 1986-2020 and isolating across 9 Countries.
- Identified a statistically significant positive-relationship between average household income and access to internet.
- Conducted an analysis of real world impact, lurking variables, and future considerations/implications: most notably in regards to the effects of leverage from excess data points.

Multi-Function Plant Health Monitor

April 2022

- Utilized an Arduino Uno Rev3 and an array of Sensors to collect feature data regarding the surroundings a plant.
- Worked with CAD and CNC for probe-housing through the Autodesk Inventor, Adobe Illustrator, and GCode.
- Used Flutter as an interface for user monitoring, updated with a Realtime database on Google Firebase for push-notifications and updated status-indicator
- Written in C++ on Arduino's native IDE for local processing to reduce latency and compute-time for Firebase.

Technical Skills

Languages: C, C++, Kotlin, Python, Java, R

Technologies/Frameworks: Pandas, Scikit-Learn, Numpy, Tensorflow Keras, Selenium, BeautifulSoup