

# Abhi Vinnakota

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## EDUCATION

### University of Illinois Urbana-Champaign

Champaign, IL

Bachelor's of Science in Computer Science || GPA: 4.0

Expected: June 2024

- Relevant Coursework: Discrete Structures, Introduction to Computer Science II (C++), Linear Algebra
- Association of Computing Machinery Member: Artificial Intelligence/Data Analytics Special Interest Group

## PROFESSIONAL EXPERIENCE

### Northwestern University

Evanston, IL

Data Science Research Intern, SONIC Lab

Sept. 2020 - Sept. 2021

- Analyzed technology adaptations in human-AI teams for a study funded by the Army Research Laboratory.
- Generated visualizations using R ggplot and tidyr packages to demonstrate the success of human-AI teams.
- Identified the team processes and properties that are associated with success in human-AI teams through the analysis of physiological and behavioral data from experimental team scenarios.

### BUNDLAR

Chicago, IL

Augmented Reality Intern

August 2019 - August 2020

- Developed AR media with BUNDLAR's SaaS platform to demonstrate the technology to potential clients.
- Designed AR marketing and presentation materials powered by Unity for 5 healthcare and education clients.
- Worked with the CEO to perform business research and prepared investor decks that led to successful funding.

### Caterpillar

Peoria, IL

Data Analyst Intern, Digital Billing Team

June 2019 - August 2019

- Implemented backend processes using the Java Spring framework to ensure proper data flow to the website.
- Utilized SQL to retrieve customer data from the Dealer Portal and generated reports for two business analysts.
- Constructed the user interface of the dealer management order form using HTML, CSS, and Javascript.

## LEADERSHIP EXPERIENCE

### IMSA TALENT Entrepreneurship Club

Aurora, IL

Curriculum Head

May 2019 - May 2021

- Reconstructed the school's entrepreneurship curriculum and led a team of eight to write the teaching material.
- Organized school-wide business workshops and grew club membership by 50% to 30 active members.

## PROJECTS

### Breast Cancer Image Prediction

Peoria, IL

Personal Project

Feb 2021 - March 2021

- Trained a model on a dataset of 1127 breast cell image samples using Tensorflow and Neural Networks.
- Used image detection and a deep learning model to perform classification and predict whether breast cell image samples were benign vs. malignant with a 90% accuracy.

### Stroke Prediction Analysis

Peoria, IL

Personal Project

April 2021 - May 2021

- Predicted stroke occurrence with a 94% accuracy after training a KNeighbors model on 5110 stroke samples.
- Ran an SVM regression model to predict the average glucose level of a patient based on stroke occurrence, age, history of hypertension, and history of heart disease with a mean absolute error of 29.5 mmol/L.

## SKILLS

**Languages:** Python, Java, C++, Javascript, HTML, CSS, SQL, R

**Tools:** Jupyter, Git, Pandas, ReactJS, Keras, Matplotlib, Sci-kit learn