

# Aamogh Sawant

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## Education

### University of Central Florida- College of Engineering

*Expected Graduation | May 2028*

- Candidate for B.S. in Computer Science
- Relevant Coursework: IB Computer Science. Intro to C, Discrete Math, Multivariable Calculus
- Certifications: Java and Python Microsoft Certification, CompTIA IT Certification

## Experience

### Kumon, Center Assistant, Jacksonville, Florida

**August 2020-May 2024**

- Assisted with tutoring students in advanced math subjects including calculus and higher-level reading focusing on grammar rules.
- Monitored students' progress by inputting scores from Kumon homework into the CMS (Kumon Database) system, which assigned further work based on the scores achieved.
- Cleaned up and organized the center's layout around the central area, aimed at reducing the likelihood of students contracting illnesses from one another.

### First Robotics, Team Resistance Programmer, Jacksonville, Florida

**August 2022 - April 2024**

- Coordinated with teammates to build and program the appropriate components, extensively engaging with executive coaches to foster mechanical innovation
- Utilized Java in the software development of an industrial-sized robot to engage and execute field-based tasks and contests.
- Won regionals and placed 5th in nationals while competing against 50 regional and 3700 national teams.

### NLP Logix, Data Science and Machine Learning Intern, Jacksonville, Florida

**June 2023 - August 2023**

- Produced data visualizations by analyzing the NFL Play-by-Play dataset from 2001-2021. Used Tableau to identify trends within the data and establish relationships by filtering 30,000+ data columns, building interactive dashboards, and designing relation patterns.
- Developed machine learning algorithm in Python with Random Forest Classifier learning models, Train-Test splits, and parameter tuning to create a predictive model for play type based on analytic parameters.
- Presented our model to the executive analytics team of both the NLP and NFL's Jacksonville Jaguars organizations on recognizing and predicting play calls in future games, including discussions on feature-importance and confusion matrices

## Projects

### Olympic Medal Counter

- Programmed an application with Python & BeautifulSoup to extract medal counts from the BBC website and produce a dictionary of every country.
- Created a data frame and chart using Matplotlib and Pandas to display the medal counting and rank the countries based on most medals.

### Music Analyzer

- Programmed an application with Python & Spotify Web API to extract track features and produce optimal playlists based on the client API key.
- Constructed an algorithm to display song pairings based on metadata such as genre and signature to create rankings of song matches.

### Pass or Rush Football Model

- Expanded the model from my NLP internship to incorporate the user input of two teams and updated the dataset.
- Finetuned the model to reduce the false positives and true negatives to increase the accuracy from 68% to 80%

## Skills

**Languages:** Java, Python, C#/C/C++, SQL, JavaScript, HTML/CSS, Swift

**Technologies:** Visual Studio, JetBrains IDEs, Jupyter/Python Notebooks, NumPy & Pandas, LaTeX, Tableau