

# Coachable: Voice Play-By-Play

## About the Company

Coachable is an early stage startup that is leveraging **artificial intelligence** to change the way sports coaches evaluate team performance. The founders of Coachable have participated in CSM Field Session projects dating back to 2009 - and have a great deal of experience in helping Field Session teams with **successful outcomes**.

## About You

- You have a deep interest in **natural language processing, neural networks and deep learning**.
- You understood matrix math better than your highschool math teacher!
- You are always up for a good challenge!

## About the Project

Coachable is developing technology that enables **voice play-by-play input** in the collection and logging of statistics for live basketball games. You will assist in evaluating technologies and prototyping the **core technology** for the voice input to the platform.

## Project Objectives

Investigate, prototype and recommend the ideal architecture and/or commercial platform for a system that takes human voice input of play-by-play basketball game action and translates it into meaningful inputs for statistics collection.

- Identify the player(s) (and respective teams) involved in a play-by-play call
- Identify the action(s) involved in the play-by-play call
- Turn the dialog into meaningful inputs for statistics collection

Contrasting example inputs might sound like:

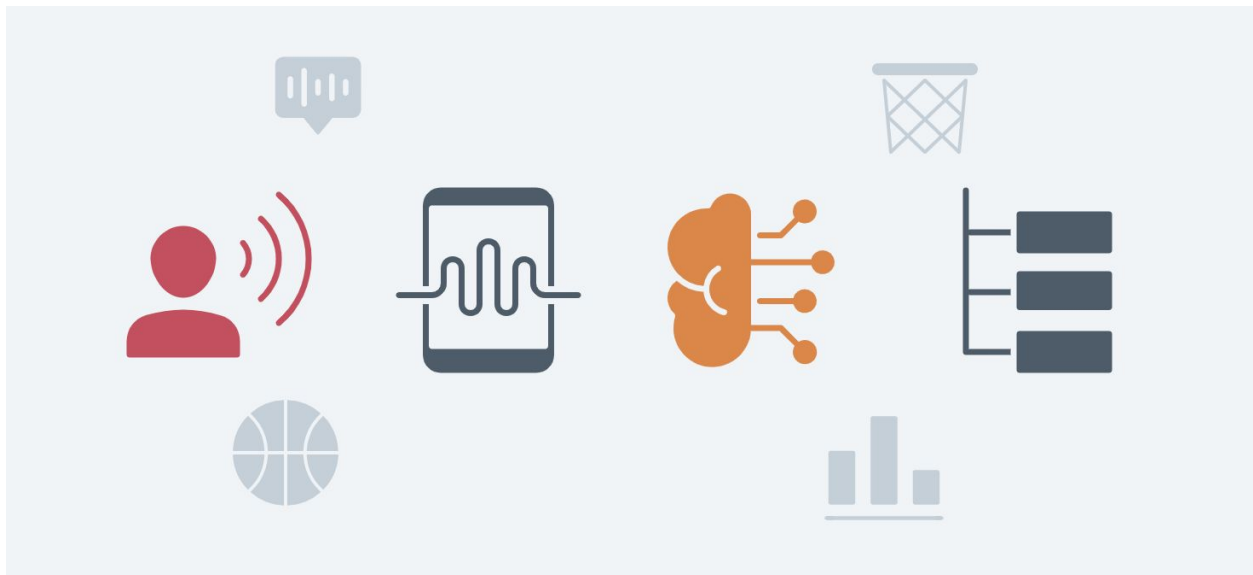
- “Shot attempt missed by number twenty-three in blue. Rebounded by number forty-three in white.”
- “Missed shot by twenty-three for the visiting team. The ball was rebounded by forty-three for the home team”.
- “Traveling violation by number ten in white.”
- “Traveling, number ten Celtics.”

A successful project will:

- identify the pros and cons to the variety of possible architectures and/or commercially available platforms.
- demonstrate the feasibility and efficacy of a solution trained to understand terms relevant to the game being played (specific names, colors, jersey numbers, basketball terms, etc).
- if data is missing from a play-by-play call, develop conversational responses to the user to facilitate collection of all of the required data.

## Team Size & Logistics

- A **team size of 2-3 would be ideal**.
- Coachable is a remote team, so **you will also work remote!** All meetings will be done via Google Hangouts or Zoom.
- We utilize **agile software development practices**, and will work with your schedule to set up a meeting cadence that supports those practices (sprint planning, standups, reviews & retrospectives).



## Internships

Up to one paid internship will be available for the remainder of the summer following Field Session to continue work on this project.

## Intellectual Property

IP for this project shall be assigned to the company.