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.