Ok – I will write some of this narratively and some of this in scripts. Here is what I envision.

North Star Goal: “Build a local FastAPI + React scouting assistant that cleans data, generates pick lists, and supports live alliance selection—all from Google Sheets, The Blue Alliance, and GPT-4o.”

1. Setup Window – Select FRC Season, Link Appropriate Google Folder, Take care of any authentication needs with Google, etcetera. There should also be a “learning button” so that GPT can correlate the data being collected in the spreadsheet with the rules of the game for each year dynamically. Dynamic Schema-Learning (season-agnostic). This way code doesn’t need to be updated each year with different ways of scoring and such. This should also include a box to select team number of the team using the app. This should also include a box to select the event being worked (pull event listing from Blue Alliance API) It will also need a button to pull new information such as match and team data from the Blue Alliance so it can be run when match schedules are generated.
2. Data Cleanup Window – This is run at the end of the day, prior to starting the Scouting Meeting where the team will generate their initial pick list. It will do the following:
3. Verification Button: Run a script that will check the scouting data collected by scouts against match data to confirm all teams have been scouted for each match based on match schedule collected from the Blue Alliance.
   1. Error Message: A team was not scouted in a certain match that they played in.
      1. Options:
         1. Team not present on field.
         2. Use average team data to fill match data.
         3. Virtually Scout Match
            1. If selected, add to a to-do list window that lists team number and match number.
   2. Error Message: A team’s data for a certain match was a standard deviation above or below its usual scores.
      1. Options:
         1. Add explanation as to why. (added as addendum to scouting data)
         2. Ignore and move to next error.
         3. Virtually Scout Match
            1. If selected, add to a to-do list window that lists team number and match number.
4. Reverify – Ran once verification is complete if any matches are being virtually scouted.
5. Pick List Strategy Window – This window allows team to type in narratively bulleted strategy for 1st pick and 2nd pick. There should be a tickbox to select if the event has 3rd pick. If so, then there should be a bulleted strategy allowed for that. The strategy should be a ranked list for each. There should also be the ability to select any teams that should not be picked under any circumstances so they will not be evaluated. There should also be a button that allows GPT to generate suggested strategy based on strategic information gathered from other sites and the like.
6. Pick List Window: Once the Pick List Strategy Window is completed, designated by clicking a button, ChatGPT should use data from the Scouting Information (Tab 1 of Google Sheet), SuperScouting Information(Tab 2 of the Google Sheet), and the Pick List Strategy information to create 2 pick lists (or 3 if there are 3 alliance partners being selected). These lists should be able to be dynamically adjusted by the user and should contain both team number and team names respectively. If adjustments are made, these should be saved. A one sentence summary from GPT should be next to each team explaining the reasoning of each choice. There should be a GPT Chat window available so questions can be asked about the logic of teams and positions. Once confirmed, these pick lists should be saved in a CSV file located on the computer that can be accessed without internet access.
7. Live Pick List: This will be used during alliance selection. It should provide the following:
   1. Live alliance selection window that allows team to input the various teams selected by an alliance in real time by number. As these numbers are entered, they should dynamically update the pick list of teams available in order of the lists in the Pick List Window.
   2. A radio box to select the different pick lists (1st pick, 2nd pick, 3rd pick) that will change what pick list is being displayed next to the live alliance selection window. If internet is available, there should also be a text box that updates with GPTs recommendation for next selection even if it does not fit the pick list suggestion as well as reason why. This can be updated based on what the other alliances are choosing live.
8. Live Strat List Window: This will be used during matches – both qualification and elimination matches. It should use the live Google Sheet to provide important data to teams based on the selected match including the strengths and weaknesses of each team and alliance, possible match strat against the other alliance, and provide a question window for GPT to answer questions. This should not need the data validation to be run since it will often be run during live events.