2-Week Plan for FIFA Dataset Analysis Project

Week 1: Data Preparation, Exploratory Data Analysis, and Initial Visualizations

Day 1-2: Data Preparation and Cleaning

- **Day 1:** Familiarize yourself with the dataset. Identify missing values, redundant columns, or any anomalies.
- **Day 2:** Clean the dataset using Pandas. Handle missing values, normalize data formats, and create new columns if necessary.

Day 3-4: Exploratory Data Analysis (EDA)

- **Day 3:** Conduct initial EDA to understand distributions of key attributes (age, overall rating, potential, market value).
- **Day 4:** Analyze relationships between attributes, such as how player's overall rating correlates with market value.

Day 5-6: Visualization

- **Day 5:** Start visualizing findings using Matplotlib and Seaborn. Create histograms, scatter plots, and box plots.
- **Day 6:** Develop advanced visualizations, such as comparative visualizations of top clubs/countries or heatmaps of player attributes.

Week 2: Statistical Analysis, Predictive Modeling, and Presentation

Day 7-8: Statistical Analysis

- **Day 7:** Formulate and test hypotheses about the data (e.g., comparing player market values across positions).
- **Day 8:** Use statistical methods to analyze age effects on players' attributes and market value.

Day 9-11: Predictive Modeling

- **Day 9:** Prepare data for modeling. Select features and split data into training and test sets.
- **Day 10:** Build a regression model to predict player market values. Evaluate and adjust as necessary.
- **Day 11:** Create a model to predict player potential. Explore classification models if time permits.

Day 12-13: Finalize Presentation

- **Day 12:** Compile key findings, visualizations, and insights into a report or presentation.
- **Day 13:** Review and polish your presentation. Prepare to answer questions about your methodology and results.

Day 14: Presentation and Reflection

- **Day 14:** Present your findings to peers, mentors, or stakeholders. Reflect on the project and identify areas for improvement.

Additional Tips

- **Stay Organized:** Keep your code and findings well-documented. Use Jupyter Notebooks to combine code with narrative.
- **Be Flexible:** Be prepared to adjust your plan as needed.
- **Seek Feedback:** Don't hesitate to seek feedback from peers or mentors.