**Project Title: ATP Matches 2000 – Men's Tennis Data Analysis**

**Objective:**

To explore and uncover key trends in professional men’s tennis using ATP Tour match data from the year 2000. This includes analyzing player performance, surface influence, and match dynamics through statistical techniques and visualizations.

**Project Phases:**

**1. Data Acquisition**

* Download ATP match data for the year 2000 for Kaggle
* Verify data structure and format (CSV/Excel)

**2. Data Cleaning & Preparation**

* Handle missing/null values.
* Correct data types (e.g., dates, numerical fields).
* Standardize player names and surface types.

**3. Exploratory Data Analysis (EDA)**

* Overview of match counts by:
  + Tournament
  + Surface (Hard, Clay, Grass, Carpet)
  + Round (Finals, Semi-finals, etc.)

**4. Visual Analysis**

* Create meaningful visualizations:
  + Match durations by round
  + Average Win Rate by Surface
* Tools: Matplotlib, Seaborn, Pandas built-in plotting

**Tools & Technologies:**

* **Programming Language**: Python
* **Libraries**: Pandas, Matplotlib, Seaborn
* **IDE**: Jupyter Notebook