## Table 2 Code Guide

#### Overview

The script connects to the **EOD Historical Data** service and pulls only a tiny slice of their *Fundamentals* feed:

/fundamentals/{TICKER}?filter=Earnings::Trend&api\_token = ...

- The filter=Earnings::Trend parameter tells EOD to return *only* the Trend block (not the full 2–3 MB fundamentals file).
- Inside that block, each record has fields such as epsTrendCurrent, epsTrend7daysAgo, ... plus a period label (0q, +1q, 0y, +1y...).

# Main Code Components

### 1. \_get\_json(url)

Small helper that performs an HTTP GET, checks the status code, and returns decoded JSON.

#### 2. \_pull\_trend(ticker)

Calls the endpoint above. Two possible shapes are handled:

- Filtered call (our default): JSON is the Trend object.
- Unfiltered call: JSON is the full fundamentals file, so the function digs down to Earnings → Trend.

#### 3. \_latest\_snapshots (trend)

The API may contain multiple dated snapshots for each period code. This function keeps only the *newest* snapshot per period (e.g. the most recent 0q, +1q, ...). **N.B**: the edge case seen on the TICKER **AFRM**, was due to the wrong labeling by EOD, they labeled it 0q instead of +1q.

## 4. \_get\_period(rec\_map, wanted)

Returns the requested period snapshot. If a company is missing +1q, the function automatically falls back to the nearest future quarter that exists (+2q, +3q, ...). The same logic applies to years.

#### 5. \_row\_for( ticker )

Orchestrates the previous helpers and constructs one tidy table row with the 20 columns:

$$(Curr\ Qtr\ Curr,\ Curr\ Qtr\ 7,\ 30,\ 60,\ 90),\dots(Next\ Yr\ 90).$$

#### 6. build\_table( ticker\_list )

Loops through all tickers, pauses  $\approx 1$  second between calls to respect rate limits, and concatenates the rows into a pandas data-frame.

## 7. save(df, "eps\_trend.xlsx")

Writes the final table:

• .xlsx (uses openpyxl) or csv (UTF-8).

Choosing CSV avoids Excel-library dependencies if desired.

# Result

Each ticker ends up on one line, ready for side-by-side comparison of how analysts' EPS estimates have moved over the last 7, 30, 60 and 90 days for the:

- current quarter,
- next quarter,
- $\bullet\,$  current fiscal year and
- next fiscal year.