import pandas as pd

# Data: Year and Population

data = {

"Year": [2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024],

"Population (in billions)": [1.307, 1.322, 1.338, 1.354, 1.369, 1.383, 1.396, 1.407, 1.417, 1.428, 1.441]

}

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# Create DataFrame

df = pd.DataFrame(data)

# Fun captions for specific years

fun\_facts = {

2014: "The year India had just over 1.3 billion people!",

2020: "Population amidst the global pandemic 🌍",

2024: "Future estimate 🚀"

}

# Add Fun Facts column

df["Fun Fact"] = df["Year"].map(fun\_facts).fillna("Steady growth this year 📈")

# Style the DataFrame

styled\_df = (

df.style

.set\_caption("✨ India's Population Trends: A Journey Through Time ✨")

.background\_gradient(cmap="viridis", subset="Population (in billions)", axis=0)

.highlight\_max(subset="Population (in billions)", color="gold", axis=0)

.highlight\_min(subset="Population (in billions)", color="#90ee90", axis=0)

.format({"Population (in billions)": "{:.3f} billion"})

.set\_table\_styles(

[

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]

)

)

# Display in notebook-friendly environments

styled\_df # Changed from styled\_d to styled\_df

