import pandas as pd

# Data: Year and Population for India and Gujarat

data = {

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

"India Population (in billions)": [1.27, 1.28, 1.32, 1.34, 1.36, 1.39, 1.40, 1.41, 1.43, 1.44, 1.45],

"Gujarat Population (in millions)": [64.5, 65.5, 67.0, 68.0, 69.5, 71.0, 72.0, 73.0, 74.0, 74.5, 75.0]

}

# Create DataFrame

df = pd.DataFrame(data)

# Fun facts about the years

fun\_facts = {

2014: "In 2014, India’s population crossed the 1.2 billion mark!",

2016: "By 2016, India was the second-most populous country after China.",

2020: "2020 marked a year of challenges due to the global pandemic.",

2024: "India is expected to reach 1.45 billion people by 2024!",

}

# Add a Fun Fact column

df["Fun Fact"] = df["Year"].map(fun\_facts).fillna("A year of steady growth 🚀")

# Style the DataFrame for a cool, interactive presentation

styled\_df = (

df.style

.set\_caption("🌍 India's and Gujarat's Population Growth (2014–2024) 📊")

.background\_gradient(cmap="coolwarm", subset=["India Population (in billions)", "Gujarat Population (in millions)"], axis=0)

.highlight\_max(subset=["India Population (in billions)", "Gujarat Population (in millions)"], color="gold", axis=0)

.highlight\_min(subset=["India Population (in billions)", "Gujarat Population (in millions)"], color="lightgreen", axis=0)

.format({

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

"Gujarat Population (in millions)": "{:.1f} million"

})

.set\_table\_styles(

[

{"selector": "caption", "props": [("font-size", "20px"), ("color", "#FF6347"), ("font-weight", "bold"), ("text-align", "center")]},

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{"selector": "td", "props": [("font-size", "12px"), ("text-align", "center")]}

]

)

)

# Display the styled table

styled\_df

