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In [ ]: import matplotlib
import pandas as pd
import geopandas as gpd
import matplotlib.pyplot as plt

# Load updated shapefile
shapefile = gpd.read_file('assam_districts_updated.shp')

# Load covid CSV data
df = pd.read_csv('COVID-19 latest cases - Assam.csv')

# Merge on district column
merged = shapefile.merge(df, left_on='District', right_on='District')
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In [ ]: import matplotlib.pyplot as plt

# Plot deaths per district
fig, ax = plt.subplots(figsize=(8, 8))
merged.plot(column='Deceased', cmap='Reds', legend=True, ax=ax)

# Annotate district names
for x, y, label in zip(merged.geometry.centroid.x, merged.geometry.centroid.y, merged.geometry.names):
    ax.annotate(label, xy=(x, y), ha='center', fontsize=6)

ax.set_axis_off()
ax.set_title("COVID-19 Deaths per District")

plt.savefig('assam_covid_deaths.png', bbox_inches='tight')
plt.show()
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