Use Interpolation to Create Weekly Employment Data - Question & Answer

# Question:

Convert monthly unemployment data to weekly using reindex and compare forward fill versus interpolation methods for filling missing values.

# Answer (Code):

# Inspect data here  
print(monthly.info())  
  
# Create weekly dates  
weekly\_dates = pd.date\_range(start=monthly.index.min(), end=monthly.index.max(), freq='W')  
  
# Reindex monthly to weekly data  
weekly = monthly.reindex(weekly\_dates)  
  
# Create ffill and interpolated columns  
weekly['ffill'] = weekly['UNRATE'].ffill()  
weekly['interpolated'] = weekly['UNRATE'].interpolate()  
  
# Plot weekly  
weekly.plot()  
plt.show()

## Question Explanation (20 words):

The question involves converting monthly unemployment data to weekly using reindex and comparing forward filling with linear interpolation.

## Answer Explanation (20 words):

We reindex monthly data to weekly frequency, apply forward fill and interpolation to UNRATE, and visualize both results.

## Reference Image:

