Bellevue University

Milestone 4 Screenshots

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DSC350-T301

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🗣 JelinekMilestone4.py 🗡
JelinekMilestone4.py > ...
      import requests
      from bs4 import BeautifulSoup
      import pandas as pd
      # scrapes the website
      url = 'https://nflcombineresults.com/nflcombinedata.php'
      response = requests.get(url)
      soup = BeautifulSoup(response.content, 'html.parser')
      table body = soup.find('tbody')
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      # extracts data from the table body
      rows = []
      for tr in table body.find all('tr'):
          cells = [td.get_text().strip() for td in tr.find_all
          ('td')]
          if cells: # avoid empty rows
              rows.append(cells)
      # converts rows to dataframe for processing
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      headers = ['Year', 'Name', 'College', 'Pos', 'Height (in)',
      'Weight (lbs)', 'Wonderlic', '40 Yard', 'Bench Press', 'Vert
      Leap (in)', 'Broad Jump (in)', 'Shuttle', '3Cone']
      df = pd.DataFrame(rows, columns=headers)
      # identify duplicate rows in all columns
      duplicates = df[df.duplicated(keep='first')]
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    # create new row
     new_row1 = {
         'Year': '2020',
         'Name': 'Bob Stewart',
         'College': 'Bellevue University',
         'Pos': 'RB',
         'Height (in)': '80',
         'Weight (lbs)': '190',
         'Wonderlic': '',
         'Bench Press': '18',
         'Vert Leap (in)': '25',
         'Broad Jump (in)': '110',
         'Shuttle': '4.7',
         '3Cone': '6.7'
     new_row_df1 = pd.DataFrame([new_row1], columns=df.columns)
     df = pd.concat([df, new_row_df1], ignore_index=True)
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new_row2 = {
    'Year': '1998',
    'Name': 'Matthew Cowards',
    'College': 'Cowards College',
    'Pos': 'CB',
    'Height (in)': '70',
    'Weight (lbs)': '170',
    'Wonderlic': '20',
    'Bench Press': '15',
    'Vert Leap (in)': '25',
    'Broad Jump (in)': '100',
    'Shuttle': '4.8',
    '3Cone': '7.5'
# convert new row to data frame
new_row_df2 = pd.DataFrame([new_row2], columns=df.columns)
df = pd.concat([df, new_row_df2], ignore_index=True)
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     # create new row
     new_row3 = {
          'Year': '2024',
          'Name': 'John Doe',
          'College': 'Sample College',
          'Pos': 'QB',
          'Height (in)': '75',
          'Weight (lbs)': '230',
          'Wonderlic': '25',
          '40 Yard': '4.8',
          'Bench Press': '20',
          'Vert Leap (in)': '32',
          'Broad Jump (in)': '120',
          'Shuttle': '4.2',
          '3Cone': '7.0'
     # convert the new row to dataframe
     new_row_df3 = pd.DataFrame([new_row3], columns=df.columns)
     df = pd.concat([df, new_row_df3], ignore_index=True)
     # clean the dataframe
     df = df.applymap(lambda x: x.strip().lower()) # converts to
     lowercase and strips whitespace
     # makes sure there is no NaN values in the dataframe
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     df.dropna(inplace=True)
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table_body.clear()
      for index, row in df.iterrows():
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          tr = soup.new_tag('tr')
          for value in row:
             td = soup.new_tag('td')
              td.string = value
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             tr.append(td)
          table body.append(tr)
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     with open('JelinekMilestone4.html', 'w', encoding='utf-8') as
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      file:
         file.write(str(soup))
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2024	zak zinter	michigan	og	77.88	309						
2020	bob stewart	bellevue university	rb	80	190		2.0	18	25	110	4.
1998	matthew cowards	cowards college	cb	70	170	20	4.5	15	25	100	4.;
2024	john doe	sample college	ф	75	230	25	4.8	20	32	120	4.:

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