Loading pre-trained spanBERT from ./pretrained_spanbert
____
Parameters:
Client key = AIzaSyBHRHOxxGtFuRU3bfpVkGKc29_R8jN6Gu8
Engine key = f2d45d63dda814dd6
Gemini key = AIzaSyC-esIaQHAInpTOquQmTPN8-7w_FnIrTvU
Method    = spanbert
Relation   = Work_For
Threshold  = 0.7
Query      = bill gates microsoft
# of Tuples  = 10
Loading necessary libraries; This should take a minute or so ...
========== Iteration: 0 - Query: bill gates microsoft ==========

URL ( 1 / 10):  https://en.wikipedia.org/wiki/Bill_Gates
        Fetching text from url ...
        Trimming webpage content from 142952 to 10000 characters
        Webpage length (num characters): 10000
        Annotating the webpage using spacy...
        Extracted 51 sentences. Processing each sentence one by one to check for
presence of right pair of named entity types; if so, will run the second pipeline ...
        Processed 5 / 51 sentences
        Processed 10 / 51 sentences

        === Extracted Relation ===
        Input tokens: ['age', '68)Seattle', ',', 'Washington', ',', 'U.S.EducationHarvard',
'University', '(', 'dropped',
'out)OccupationsBusinessmaninvestorphilanthropistwriterYears', 'active1972', '–',
'presentKnown', 'for', 'Pioneer', 'of', 'the', 'personal', 'computer', 'revolution', 'with', 'Paul',
'Allen', 'Co', '-']

Output Confidence:  0.9882055 ; Subject: 68)Seattle ; Object: Pioneer ;
        Adding to set of extracted relations
        ==========
        Processed 15 / 51 sentences
        Processed 20 / 51 sentences

        === Extracted Relation ===
        Input tokens: ['he', 'and', 'Allen', 'founded', 'Microsoft', 'in', 'Albuquerque', ',']

Output Confidence:  0.9881678 ; Subject: Allen ; Object: Microsoft ;
        Adding to set of extracted relations
        ==========
        Processed 25 / 51 sentences

        === Extracted Relation ===
        Input tokens: ['He', 'stepped', 'down', 'as', 'chairman', 'of', 'the', 'Microsoft',

'board', 'in', 'February', '2014', 'and', 'assumed', 'the', 'role', 'of', 'technology', 'adviser', 'to', 'support', 'newly', 'appointed', 'CEO', 'Satya', 'Nadella.[7', ']']

Output Confidence: 0.9973029 ; Subject: Satya Nadella.[7 ; Object: Microsoft ;
    Adding to set of extracted relations
    =========

    === Extracted Relation ===
    Input tokens: ['Gates', 'left', 'his', 'board', 'positions', 'at', 'Microsoft', 'and', 'Berkshire', 'Hathaway', 'to', 'focus', 'on', 'his', 'philanthropic', 'efforts', 'on', 'climate', 'change', ',']

Output Confidence: 0.761939 ; Subject: Berkshire Hathaway ; Object: Gates ;
    Adding to set of extracted relations
    =========

    === Extracted Relation ===
    Input tokens: ['Gates', 'left', 'his', 'board', 'positions', 'at', 'Microsoft', 'and', 'Berkshire', 'Hathaway', 'to', 'focus', 'on', 'his', 'philanthropic', 'efforts', 'on', 'climate', 'change', ',']

Output Confidence: 0.73826635 ; Subject: Berkshire Hathaway ; Object: Microsoft ;
    Adding to set of extracted relations
    =========
    Processed 30 / 51 sentences

    === Extracted Relation ===
    Input tokens: ['he', 'was', 'surpassed', 'by', 'Amazon', 'founder', 'Jeff', 'Bezos', ',']

Output Confidence: 0.99580115 ; Subject: Jeff Bezos ; Object: Amazon ;
    Adding to set of extracted relations
    =========

    === Extracted Relation ===
    Input tokens: ['he', 'was', 'surpassed', 'by', 'Amazon', 'founder', 'Jeff', 'Bezos', ',', 'who', 'had', 'an', 'estimated', 'net', 'worth', 'of', 'US$', '90.6', 'billion', 'compared', 'to', 'Gates', "'s", 'net', 'worth', 'of', 'US$', '89.9', 'billion', 'at', 'the', 'time.[9', ']']

Output Confidence: 0.9317595 ; Subject: Jeff Bezos ; Object: Gates ;
    Adding to set of extracted relations
    =========
    Processed 35 / 51 sentences
    Processed 40 / 51 sentences
    Processed 45 / 51 sentences
    Processed 50 / 51 sentences

Extracted annotations for  5  out of total  51  sentences
Relations extracted from this website: 7 (Overall: 7)

URL ( 2 / 10):  https://twitter.com/BillGates
        Fetching text from url ...
Unable to fetch URL. Continuing.
URL ( 3 / 10):  https://www.instagram.com/thisisbillgates/
        Fetching text from url ...
        Webpage length (num characters): 19
        Annotating the webpage using spacy...
        Extracted 1 sentences. Processing each sentence one by one to check for
presence of right pair of named entity types; if so, will run the second pipeline ...

        Extracted annotations for  0  out of total  1  sentences
        Relations extracted from this website: 0 (Overall: 0)

URL ( 4 / 10):  https://news.microsoft.com/tag/bill-gates/
        Fetching text from url ...
Unable to fetch URL. Continuing.
URL ( 5 / 10):  https://www.britannica.com/biography/Bill-Gates
        Fetching text from url ...
        Trimming webpage content from 12482 to 10000 characters
        Webpage length (num characters): 10000
        Annotating the webpage using spacy...
        Extracted 65 sentences. Processing each sentence one by one to check for
presence of right pair of named entity types; if so, will run the second pipeline ...
        Processed 5 / 65 sentences
        Processed 10 / 65 sentences
        Processed 15 / 65 sentences
        Processed 20 / 65 sentences
        Processed 25 / 65 sentences
        Processed 30 / 65 sentences
        Processed 35 / 65 sentences
        Processed 40 / 65 sentences
        Processed 45 / 65 sentences

                === Extracted Relation ===
                Input tokens: ['What', 'are', 'Bill', 'Gates', "'s", 'major', 'accomplishments?Bill',
'Gates', 'founded', 'the', 'software', 'company', 'Microsoft', 'Corporation', 'with', 'his',
'friend', 'Paul', 'Allen', '.']

Output Confidence:  0.9184544 ; Subject: Bill Gates's ; Object: Microsoft Corporation ;
                Adding to set of extracted relations
                ==========

                === Extracted Relation ===
                Input tokens: ['What', 'are', 'Bill', 'Gates', "'s", 'major', 'accomplishments?Bill',

'Gates', 'founded', 'the', 'software', 'company', 'Microsoft', 'Corporation', 'with', 'his', 'friend', 'Paul', 'Allen', '.']

Output Confidence:  0.81734884 ; Subject: accomplishments?Bill Gates ; Object: Microsoft Corporation ;
      Adding to set of extracted relations
      ==========

      === Extracted Relation ===
      Input tokens: ['What', 'are', 'Bill', 'Gates', "'s", 'major', 'accomplishments?Bill', 'Gates', 'founded', 'the', 'software', 'company', 'Microsoft', 'Corporation', 'with', 'his', 'friend', 'Paul', 'Allen', '.']

Output Confidence:  0.931 ; Subject: Paul Allen ; Object: Microsoft Corporation ;
      Adding to set of extracted relations
      ==========

      === Extracted Relation ===
      Input tokens: ['Bill', 'Gates', '(', 'born', 'October', '28', ',', '1955', ',', 'Seattle', ',', 'Washington', ',', 'U.S.', ')', 'is', 'an', 'American', 'computer', 'programmer', 'and', 'entrepreneur', 'who', 'cofounded', 'Microsoft', 'Corporation', ',']

Output Confidence:  0.97917324 ; Subject: Bill Gates ; Object: Microsoft Corporation ;
      Adding to set of extracted relations
      ==========
    Processed 50 / 65 sentences
    Processed 55 / 65 sentences
    Processed 60 / 65 sentences
    Processed 65 / 65 sentences

    Extracted annotations for  2  out of total  65  sentences
    Relations extracted from this website: 4 (Overall: 4)

URL ( 6 / 10):  https://www.linkedin.com/in/williamhgates
    Fetching text from url ...
Unable to fetch URL. Continuing.
URL ( 7 / 10):  https://www.forbes.com/profile/bill-gates/
    Fetching text from url ...
    Webpage length (num characters): 6835
    Annotating the webpage using spacy...
    Extracted 37 sentences. Processing each sentence one by one to check for presence of right pair of named entity types; if so, will run the second pipeline ...
    Processed 5 / 37 sentences
    Processed 10 / 37 sentences

      === Extracted Relation ===
      Input tokens: ['Bill', 'GatesRelated', 'People', '&', 'CompaniesWarren',

'BuffettFriendView', 'ProfileMicrosoftHolds', 'stake', 'in', 'MicrosoftView', 'ProfileHarvard', 'UniversityAttended']

Output Confidence:  0.79819226 ; Subject: Bill GatesRelated People & CompaniesWarren BuffettFriendView ProfileMicrosoftHolds ; Object: MicrosoftView ProfileHarvard ;
          Adding to set of extracted relations
          =========
      Processed 15 / 37 sentences
      Processed 20 / 37 sentences

          === Extracted Relation ===
          Input tokens: ['Moses', 'Preached', 'The', 'Power', 'Of', 'MathBill', 'Gates', ',', 'the', 'Microsoft', 'founder', ',']

Output Confidence:  0.97376376 ; Subject: MathBill Gates ; Object: Microsoft ;
          Adding to set of extracted relations
          =========
      Processed 25 / 37 sentences

          === Extracted Relation ===
          Input tokens: ['BySiladitya', 'RayForbes', 'StaffFeb', '22', ',', '2024America', "'s", 'Top', '5', 'Most', 'Philanthropic', 'BillionairesFour', 'newcomers', 'join', 'billionaires', 'including', 'Warren', 'Buffett', ',']

Output Confidence:  0.9905417 ; Subject: BySiladitya RayForbes ; Object: 2024America ;
          Adding to set of extracted relations
          =========

          === Extracted Relation ===
          Input tokens: ['BySiladitya', 'RayForbes', 'StaffFeb', '22', ',', '2024America', "'s", 'Top', '5', 'Most', 'Philanthropic', 'BillionairesFour', 'newcomers', 'join', 'billionaires', 'including', 'Warren', 'Buffett', ',']

Output Confidence:  0.9957006 ; Subject: Warren Buffett ; Object: StaffFeb ;
          Adding to set of extracted relations
          =========
      Processed 30 / 37 sentences

          === Extracted Relation ===
          Input tokens: ['ByAlan', 'OhnsmanForbes', 'StaffJan', '25', ',', '2024Bill', '&', 'Melinda', 'Gates', 'Foundation', 'Chief', 'Calls', 'On', 'More', 'Billionaires', 'To', 'Do', 'More', 'PhilanthropyExtreme', 'poverty', 'has', 'increased', '.']

Output Confidence:  0.99081564 ; Subject: ByAlan OhnsmanForbes ; Object: 2024Bill & Melinda Gates Foundation ;

Adding to set of extracted relations
==========
Processed 35 / 37 sentences

Extracted annotations for  4  out of total  37  sentences
Relations extracted from this website: 5 (Overall: 5)

URL ( 8 / 10):  https://answers.microsoft.com/en-us/outlook_com/forum/all/microsoft-and-bill-gates-are-so-damn-screwed-up/cd76d0e2-ece4-45db-8886-00d557d593e2
    Fetching text from url ...
    Webpage length (num characters): 13
    Annotating the webpage using spacy...
    Extracted 1 sentences. Processing each sentence one by one to check for presence of right pair of named entity types; if so, will run the second pipeline ...

    Extracted annotations for  0  out of total  1  sentences
    Relations extracted from this website: 0 (Overall: 0)

URL ( 9 / 10):  https://www.gatesnotes.com/Home
    Fetching text from url ...
Unable to fetch URL. Continuing.
URL ( 10 / 10):  https://www.facebook.com/BillGates/
    Fetching text from url ...
    Webpage length (num characters): 12
    Annotating the webpage using spacy...
    Extracted 1 sentences. Processing each sentence one by one to check for presence of right pair of named entity types; if so, will run the second pipeline ...

    Extracted annotations for  0  out of total  1  sentences
    Relations extracted from this website: 0 (Overall: 0)

================= ALL RELATIONS for Work_For ( 10 ) =================
Confidence:     0.9973029 l Subject: Satya Nadella.[7  l Object: Microsoft
Confidence:     0.99580115 l Subject: Jeff Bezos        l Object: Amazon
Confidence:     0.9957006 l Subject: Warren Buffett    l Object: StaffFeb
Confidence:     0.99081564 l Subject: ByAlan OhnsmanForbes    l Object: 2024Bill & Melinda Gates Foundation
Confidence:     0.9905417 l Subject: BySiladitya RayForbes    l Object: 2024America
Confidence:     0.9882055 l Subject: 68)Seattle        l Object: Pioneer
Confidence:     0.9881678 l Subject: Allen    l Object: Microsoft
Confidence:     0.97917324 l Subject: Bill Gates       l Object: Microsoft Corporation
Confidence:     0.97376376 l Subject: MathBill Gates   l Object: Microsoft
Confidence:     0.9317595 l Subject: Jeff Bezos        l Object: Gates
Total # of iterations = 1