



WEB-SCRAPING COURSERA


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 Master of Science in Accounting
University of Illinois at Urbana-Champaign

 Master of Data Science
HSE University

Showing 1949 total results for "data science"

Filter By

Language ▾

Level ▾

Duration ▾

Skills ▾

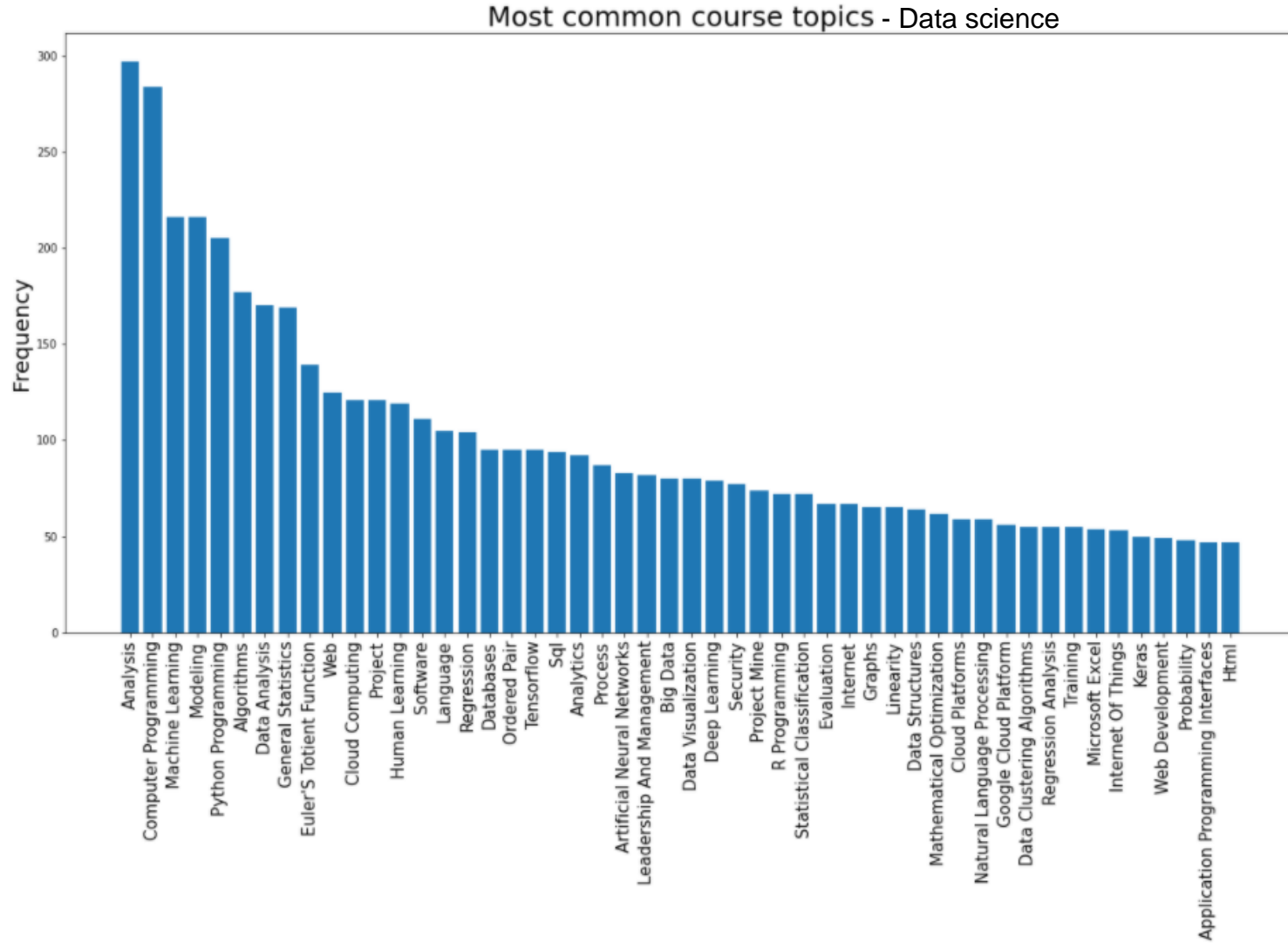
Partner ▾

Learning Product ▾

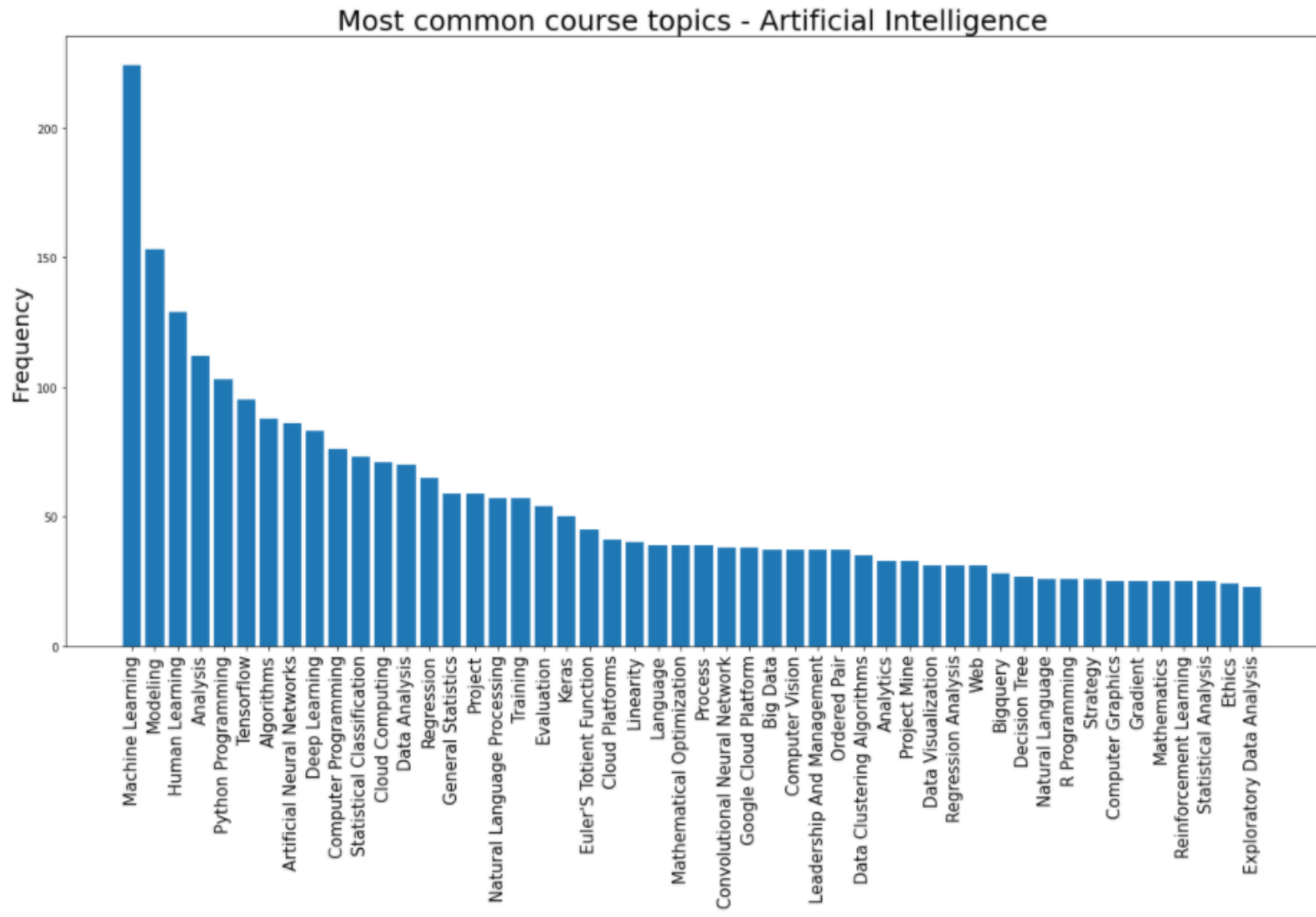
Perform web-scraping from Coursera for each individual course

```
In [717]: df = pd.DataFrame(columns = ['Course_name', 'Skills'])
course = []
list1 = []
lists = []
for page in range(10):
    driver = webdriver.Chrome(executable_path=r'chromedriver1.exe')
    #copy and paste the target link from Coursera website for each search term
    pages = 'https://www.coursera.org/search?query=Reinforcement%20Learning&page={}&index=prod_all_products_term_optimization'.format(page)
    driver.get(pages)
    time.sleep(2)
    driver.maximize_window()
    time.sleep(2)
    login = driver.find_elements_by_class_name('product-photo')
    for x in range(len(login)):
        login[x].click() # Send mouse click
    for x in range(len(login)):
        # if not x==0:
        driver.switch_to_window(driver.window_handles[1])
```

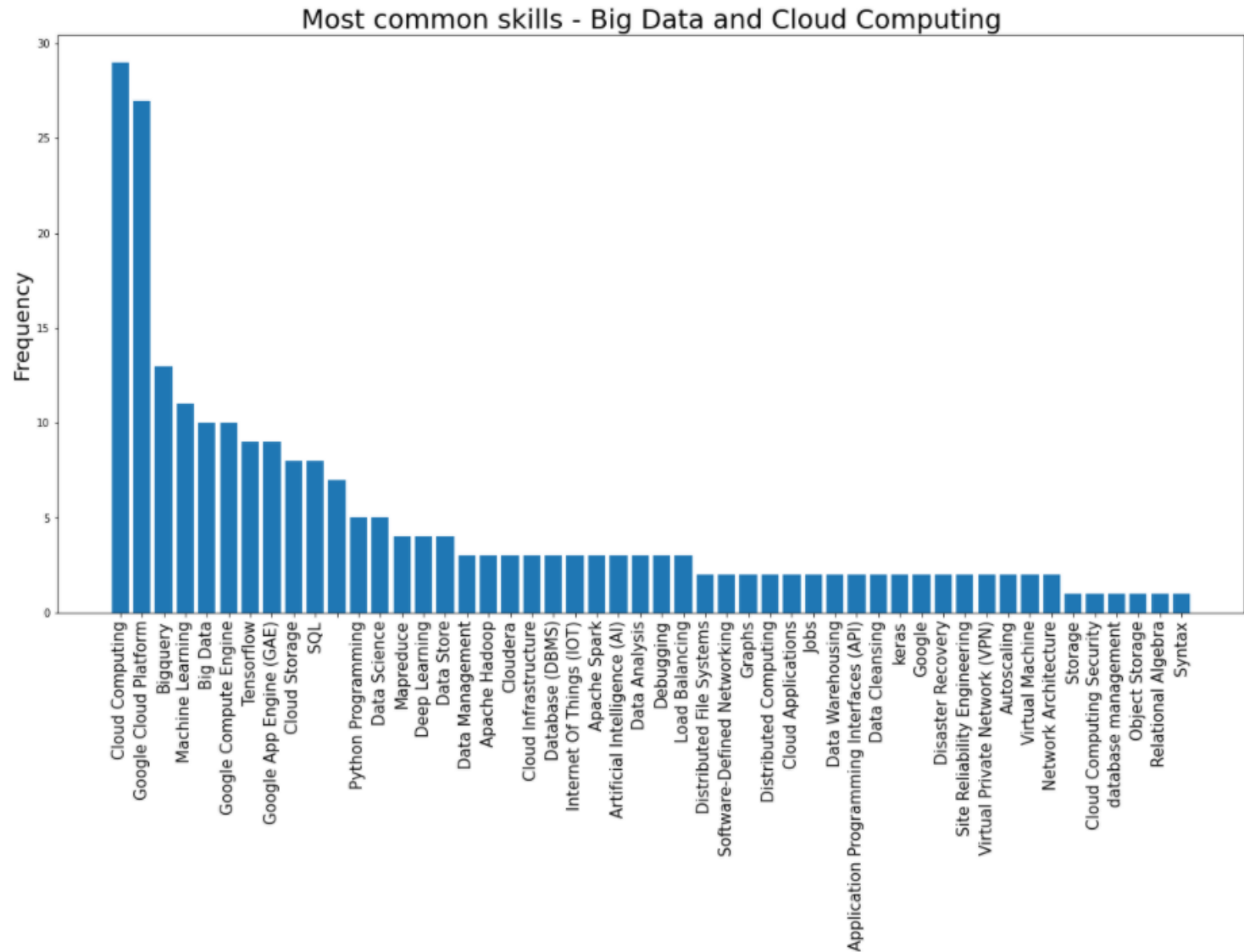
PROGRAM COURSES



PROGRAM COURSES



SAMPLE COURSE SKILLS



PROGRAM CURRICULUM

Course	Course type	Core course Skills
Mathematics and Statistics	Pre-requisite course	Linear algebra, Matrix decompositions, Vector calculus, Linear transformations, Probability and distribution, Continuous optimizations, Weekly courses and tutorials, Biweekly labs of practicing R
Python Fundamentals	Core course	Python basics, Pandas, Sklearn, Matplotlibs, model building, apply python
Introduction Data Science and Analytics	Core course	
Big data and cloud computing	Core course	Spark, SQL, Hadoop, Structure of big data, Characterises of big data, Big data processing, Big data modelling, Cloud computing with AWS
Introduction to deep learning	Core course	Tensorflow, Keras, Structure of Neural network), Introduction to CNN, Optimization of CNN, Transfer learning, Fine tuning, processing test and image data
Data mining	Core course	Text retrieval, Tableau, Data visualization, Sentiment analysis, Probabilistic models, Data cleaning, variable selection: shrinkage, lasso, penalized likelihood

PROGRAM CURRICULUM

Course	Course type	Core course Skills
Project management	Core course	Marketing strategy, Teamwork communications, Decision making based on analytics, AI in business management, Risk management
Visualization and communication	Elective course	matplotlib, ggplot2, seaborn, tableau, SAS, data scraping, data presentation, data visualization and visualisation
Advanced machine learning	Elective course	Learn supervised algorithms, Classification, Regression: linear regression, logistic regression, Unsupervised algorithms, K-means, hierarchical clustering, gaussian mixture models
Advanced deep learning	Elective course	NLP focus, RNN (recurrent neural network), LSTM (long short-term memory network)
Optimization and combinatorics	Elective course	Formulating and solving problems, linear, quadratic, nonlinear, integer programming, advanced simulation methods and dynamic programming, R programming, CPLEX, Gurobi, key modeling: AIMMS, GAMS, AMPL
Capstone Project:	Elective course	Interact with company, AI project, Seal ideas to business panels, guided workshop, team work skills