Taller 8 Métodos Computacionales para Políticas Públicas - URosario Entrega: viernes 18-oct-2019 11:59 PM **Julián Santiago Ramírez** julians.ramirez@urosario.edu.co Instrucciones: Guarde una copia de este Jupyter Notebook en su computador, idealmente en una carpeta destinada al material del curso. • Modifique el nombre del archivo del *notebook*, agregando al final un guión inferior y su nombre y apellido, separados estos últimos por otro guión inferior. Por ejemplo, mi notebook se llamaría: mcpp_taller8_santiago_matallana • Marque el notebook con su nombre y e-mail en el bloque verde arriba. Reemplace el texto "[Su nombre acá]" con su nombre y apellido. Similar para su e-mail. • Desarrolle la totalidad del taller sobre este *notebook*, insertando las celdas que sea necesario debajo de cada pregunta. Haga buen uso de las celdas para código y de las celdas tipo markdown según el caso. Recuerde salvar periódicamente sus avances. Cuando termine el taller: Descárguelo en PDF. Si tiene algún problema con la conversión, descárguelo en HTML. 2. Suba todos los archivos a su repositorio en GitHub, en una carpeta destinada exclusivamente para este taller, antes de la fecha y hora límites. 1. [1 punto] Usando expresiones regulares extraiga en una lista todos los números presentes en el siguiente objeto de Python: ob1 = "JEFF BEZOS, the founder of Amazon, has reached a divorce settlement with his wife, MacKenzie. Mr Bezos will keep all the shares in the Washington Post and Blue Origin, a space-exploration firm, as well as 75% of the couple's Amazon stock. Mrs Bezos will retain a 4% stake in the tech giant, worth nearly \$36bn, which is likely to make her the third-richest woman alive when the divorce is finalised." In [1]: #### Importamos la libreria que nos permite usar expresiones regulares #### import re In [3]: | #### variable ob1 ob1 = "JEFF BEZOS, the founder of Amazon, has reached a divorce settlement with his wife, MacKenzie. Mr Bezos will keep all the shares in the Washington Post and Blue Origin, a space-exploration firm, as well as 75% of the couple's Amazon stock. Mrs Bezos will retain a 4% stake in the tech giant, worth nearly \$36bn, which is likely to make her the third-richest woman alive when the divorce is finalised. numeros=re.findall('\d+',ob1) print("Números en el texto: ",numeros) Números en el texto: ['75', '4', '36'] 2. [1 punto] Usando expresiones regulares ahora extraiga de *ob1* sólo los números que correspondan a porcentajes. In [5]: porcentajes=re.findall('\d+%',ob1) print("Números con porcentaje en el texto: ",porcentajes) Números con porcentaje en el texto: ['75%', '4%'] 3. [2 puntos] Usando expresiones regulares, escriba una función de Python que reciba una fecha en formato Marzo 7, 2019 y retorne la fecha en formato 2019-07-03 In [18]: def conversion_fecha(fecha): def_fecha = [] meses = ['Enero', 'Febrero', 'Marzo', 'Abril', 'Mayo', 'Junio', 'Julio', 'Agosto', 'Septiembre', 'Octubre', 'Noviembre', 'Diciembre'] ### ahora de la fecha queremos obtener el dia y el año # Primero buscamos los numeros numeros = $re.search('([\d]+), ([\d]+)', fecha)$ fec=numeros.groups() def_fecha.append(fec[1]) ## El primer dato de fec es el dia y el segundo es el año, por lo tanto preguntamos si el dia es igual a 23 **if** fec[0] == '23': dia actualizado = '23' def_fecha.append(dia_actualizado) ## Hasta el momento hemos agregado el año y el dia, falta el mes mes=0 for i in range(0,len(meses)): if meses[i]=="Octubre": mes=i+1break ## Agregamos el mes a la fecha definitiva def fecha.append(mes) total=str(def_fecha[0])+'-'+str(def_fecha[1])+'-'+str(def_fecha[2]) return total ## variable que guarda la fecha ### fecha = 'Octubre 23, 2019' nueva = conversion fecha(fecha) print("Antiguo fórmato: ", fecha) print("Nuevo fórmato: ",nueva) Antiguo fórmato: Octubre 23, 2019 Nuevo fórmato: 2019-23-10 4. [3 puntos] ob2 es un string que reune una lista de clases en una universidad. Use expresiones regulares para extraer los códigos de cada una de las clases. Ejemplo: El código de la clase COMPSCI 143 (Spring 2012): Machine Learning es 143. ob2 = "COMPSCI 270 (Spring 2019): Introduction to Artificial Intelligence. COMPSCI 590.2 (Fall 2018): Computational Microeconomics: Game Theory, Social Choice, and Mechanism Design. COMPSCI 223 (Spring 2018): Computational Microeconomics. COMPSCI 570 (Fall 2017): Artificial Intelligence. COMPSCI 590.3 (Fall 2017) / 590.1 (Spring 2018): Ethics and Al. COMPSCI 590.2 (Spring 2017): Computation, Information, and Learning in Market Design. COMPSCI 590.4 (Spring 2016): Computational Microeconomics: Game Theory, Social Choice, and Mechanism Design. COMPSCI 290.4/590.4 (Spring 2015): Crowdsourcing Societal Tradeoffs. COMPSCI 570 (Fall 2014): Artificial Intelligence. COMPSCI 590.4 (Spring 2014): Computational Microeconomics: Game Theory, Social Choice, and Mechanism Design. COMPSCI 590.1 (Fall 2012): Linear and Integer Programming. COMPSCI 173 (Spring 2012): Computational Microeconomics. COMPSCI 296.1 (Fall 2011): Computational Microeconomics: Game Theory, Social Choice, and Mechanism Design. COMPSCI 296.1 (Fall 2010): Linear and Integer Programming. COMPSCI 173 (Spring 2010): Computational Microeconomics. COMPSCI 196.1/296.1 (Fall 2009): Computational Microeconomics: Game Theory, Social Choice, and Mechanism Design. COMPSCI 170 (Spring 2009): Introduction to Artificial Intelligence. COMPSCI 270 (Fall 2008): Artificial Intelligence. COMPSCI 196/296.2 (Spring 2008): Linear and Integer Programming. COMPSCI 196.2 (Fall 2007): Introduction to Computational Economics. COMPSCI 296.3 (Spring 2007): Topics in Computational Economics. COMPSCI 296.2 (Fall 2006): Computational Game Theory and Mechanism Design." In []: | ## Guardamos ob2 ## ob2 = "COMPSCI 270 (Spring 2019): Introduction to Artificial Intelligence. COMPSCI 590.2 (Fall 2018): Computational Microeconomi cs: Game Theory, Social Choice, and Mechanism Design. COMPSCI 223 (Spring 2018): Computational Microeconomics. COMPSCI 570 (Fall 2017): Artificial Intelligence. COMPSCI 590.3 (Fall 2017) / 590.1 (Spring 2018): Ethics and AI. COMPSCI 590.2 (Spring 2017): Com putation, Information, and Learning in Market Design. COMPSCI 590.4 (Spring 2016): Computational Microeconomics: Game Theory, So cial Choice, and Mechanism Design. COMPSCI 290.4/590.4 (Spring 2015): Crowdsourcing Societal Tradeoffs. COMPSCI 570 (Fall 2014): Artificial Intelligence. COMPSCI 590.4 (Spring 2014): Computational Microeconomics: Game Theory, Social Choice, and Mechanism De sign. COMPSCI 590.1 (Fall 2012): Linear and Integer Programming. COMPSCI 173 (Spring 2012): Computational Microeconomics. COMPSC I 296.1 (Fall 2011): Computational Microeconomics: Game Theory, Social Choice, and Mechanism Design. COMPSCI 296.1 (Fall 2010): Linear and Integer Programming. COMPSCI 173 (Spring 2010): Computational Microeconomics. COMPSCI 196.1/296.1 (Fall 2009): Comput ational Microeconomics: Game Theory, Social Choice, and Mechanism Design. COMPSCI 170 (Spring 2009): Introduction to Artificial Intelligence. COMPSCI 270 (Fall 2008): Artificial Intelligence. COMPSCI 196/296.2 (Spring 2008): Linear and Integer Programming. COMPSCI 196.2 (Fall 2007): Introduction to Computational Economics. COMPSCI 296.3 (Spring 2007): Topics in Computational Economi cs. COMPSCI 296.2 (Fall 2006): Computational Game Theory and Mechanism Design." In [101]: | ## Buscamos los números que acompañan la palabra COMPSCI ## Observemos que hay dos clases de codigo: el primero un numero #normal y el segundo se puede ver de esta forma: 290.4/590.4 ## Codigos tipo 1 codigo_tipo1=re.findall(' (\d+.\d+) ',ob2) ## Codigos tipo 2 codigo_tipo2=re.findall(' (\d+.\d+.\d+) ',ob2) ## Supongo que los codigos tipo 2 son dos clases diferentes y por ende debo separarlos nuevo_codigo=[] for cod in codigo_tipo2: tupla=re.search('(\d+.\d)',cod).groups() # agregamos ambos codigos nuevo_codigo.append(tupla[0]) nuevo_codigo.append(tupla[1]) total=codigo_tipo1+nuevo_codigo print("Códigos:", total) #Cod=re.findall('/ (\d+.\d+)',ob2) Códigos: ['270', '590.2', '223', '570', '590.3', '590.1', '590.2', '590.4', '570', '590.4', '590.1', '173', '296.1', '296.1', '173', '170', '270', '196.2', '296.3', '296.2', '290.4', '590.4', '196.1', '296.1', '196', '296.2'] 5. [5 puntos] ob3 es un string que reune una lista de publicaciones. Use expresiones regulares para extraer todos los Journals en los cuales el autor ha publicado. Ejemplo: El paper Bail, CA. "The configuration of symbolic boundaries against immigrants in Europe." American Sociological Review 73.1 (January 1, 2008): **37-59. Full Text** fue publicado en el Journal *American Sociological Review* ob3 = "Bail, CA, Argyle, LP, Brown, TW, Bumpus, JP, Chen, H, Hunzaker, MBF, Lee, J, Mann, M, Merhout, F, and Volfovsky, A. \"Exposure to opposing views on social media can increase political polarization.\" Proceedings of the National Academy of Sciences of the United States of America 115.37 (September 2018): 9216-9221. Full Text Open Access Copy.\n", "Bail, CA, Merhout, F, and Ding, P. \"Using Internet search data to examine the relationship between anti-Muslim and pro-ISIS sentiment in U.S. counties.\" Science Advances 4.6 (June 6, 2018): eaao5948-null. Full Text Open Access Copy.\n", "Bail, CA, Brown, TW, and Mann, M. \"Channeling Hearts and Minds: Advocacy Organizations, Cognitive-Emotional Currents, and Public Conversation.\" American Sociological Review 82.6 (December 1, 2017): 1188-1213. Full Text.\n", "Bail, CA. \"Taming Big Data: Using App Technology to Study Organizational Behavior on Social Media.\" Sociological Methods and Research 46.2 (March 1, 2017): 189-217. Full Text.\n", "McDonnell, TE, Bail, CA, and Tavory, I. \"A Theory of Resonance.\" Sociological Theory 35.1 (March 1, 2017): 1-14. Full Text.\n", "Bail, CA. \"Combining natural language processing and network analysis to examine how advocacy organizations stimulate conversation on social media.\" Proceedings of the National Academy of Sciences of the United States of America 113.42 (October 2016): 11823-11828. Full Text.\n", "Bail, CA. \"Emotional Feedback and the Viral Spread of Social Media Messages About Autism Spectrum Disorders.\" American journal of public health 106.7 (July 2016): 1173-1180. Full Text.\n", "Bail, CA. \"The public life of secrets: Deception, disclosure, and discursive framing in the policy process.\" Sociological Theory 33.2 (January 1, 2015): 97-124. Full Text.\n", "Bail, CA. \"The cultural environment: Measuring culture with big data.\" Theory and Society 43.3 (January 1, 2014): 465-524. Full Text.\"" In [57]: | ## Variable ob3 ob3 = '"Bail, CA, Argyle, LP, Brown, TW, Bumpus, JP, Chen, H, Hunzaker, MBF, Lee, J, Mann, M, Merhout, F, and Volfovsky, A. "Exp osure to opposing views on social media can increase political polarization." Proceedings of the National Academy of Sciences of the United States of America 115.37 (September 2018): 9216-9221. Full Text Open Access Copy.\n", "Bail, CA, Merhout, F, and Din g, P. "Using Internet search data to examine the relationship between anti-Muslim and pro-ISIS sentiment in U.S. counties." Scie nce Advances 4.6 (June 6, 2018): eaao5948-null. Full Text Open Access Copy.\n", "Bail, CA, Brown, TW, and Mann, M. "Channeling H earts and Minds: Advocacy Organizations, Cognitive-Emotional Currents, and Public Conversation." American Sociological Review 8 2.6 (December 1, 2017): 1188-1213. Full Text.\n", "Bail, CA. "Taming Big Data: Using App Technology to Study Organizational Beha vior on Social Media." Sociological Methods and Research 46.2 (March 1, 2017): 189-217. Full Text.\n", "McDonnell, TE, Bail, CA, and Tavory, I. "A Theory of Resonance." Sociological Theory 35.1 (March 1, 2017): 1-14. Full Text.\n", "Bail, CA. "Combining nat ural language processing and network analysis to examine how advocacy organizations stimulate conversation on social media." Pro ceedings of the National Academy of Sciences of the United States of America 113.42 (October 2016): 11823-11828. Full Text.\n", "Bail, CA. "Emotional Feedback and the Viral Spread of Social Media Messages About Autism Spectrum Disorders." American journal of public health 106.7 (July 2016): 1173-1180. Full Text.\n", "Bail, CA. "The public life of secrets: Deception, disclosure, and discursive framing in the policy process." Sociological Theory 33.2 (January 1, 2015): 97-124. Full Text.\n", "Bail, CA. "The cu ltural environment: Measuring culture with big data." Theory and Society 43.3 (January 1, 2014): 465-524. Full Text."' ## Guardaremos todos los journals en esta lista journals = [] # Buscamos en el texto frases: palabra + fecha frases = re.findall('" \w+ .+ \d',ob3) for i in range(0,len(frases)): jour = re.search('\w+\D+',frases[i]).group() journals.append(jour) # Modificamos el primer journal journals[0] = 'National Academy of Sciences of the United States of America' borrar=[] for i in range(0,len(journals)): if journals[i]=='Sociological Theory ': borrar.append(i) del journals[borrar[0]] del journals[borrar[1]-1] print("Journals: ",journals) Journals: ['National Academy of Sciences of the United States of America', 'Science Advances ', 'American Sociological Review ', 'Sociological Methods and Research ', 'Proceedings of the National Academy of Sciences of the United States of America ', 'A merican journal of public health ', 'Theory and Society '] 6. [10 puntos] Vamos a hacer "scraping" a esta página: https://archive.ics.uci.edu/ml/datasets.php, que contiene un listado de 468 bases de datos que hacen parte del repositorio de la Universidad de California, Irvine. Su tarea consiste en crear un "Pandas dataframe" que contenga 468 filas (una por base de datos) y las siguientes columnas: Nombre de la base de datos Link a la base de datos Tipo de datos Tipo de tarea a resolver (default task) Tipo de las variables Número de observaciones Número de variables Año Descripción de la base (Pista: Utilice la opción list view: https://archive.ics.uci.edu/ml/datasets.php? format=&task=&att=&area=&numAtt=&numIns=&type=&sort=nameUp&view=list) In [94]: import requests from bs4 import BeautifulSoup import pandas as pd In [60]: # Info pag link = requests.get('https://archive.ics.uci.edu/ml/datasets.php').text 1 = BeautifulSoup(link, "lxml") In [85]: ### Buscamos primero todas las lineas que inician con lineas = l.find_all('b') str_lineas=str(lineas) # En esas lineas buscamos unas con una caracteristica especifica especificas= re.findall('(<a href="datasets/\w+.+?)', str_lineas) # Crearemos una lista con todos los nombres nombres = []for i in range(0,len(especificas)): nom = re.search('>(\w+.+)[^<]',especificas[i]).group()</pre> nombres.append(nom) # Ahora de los nombres los quitamos el for i in range(0,len(especificas)): nom = re.search('[^>].+[^>]',nombres[i]).group() nombres[i]=nom #print("Variables: ", nombres) In [84]: ## datos caracteristas # lineas que inician con carac = 1.find_all('p') # Caracteristica de los datos, falta el ultimo caracteristicas=re.findall('(href="datasets/.+?)',str(carac))+['href="datasets/Rice+Leaf+Diseases">Rice Leaf Diseases , Multivariate\xa0, Classification\xa0, Integer\xa0, ass="normal">120 \times a0, \times a0, 2019 \times a0'] # Tipos de datos ## Guardare todo en una lista de listas tipos=[[],[],[],[],[],[]] for i in range(0,len(especificas)): carac_es = re.search('<p.+',caracteristicas[i]).group()</pre> tipo =re.findall('(<p.+?</p>)',carac_es) **for** j **in** range(0,6): pal1=re.search('(>.+?\xa0)|(\xa0)',tipo[j]).group() pal2=re.search('[^>].+[^\xa0]|\w+|\xa0',pal1).group() tipos[j].append(pal2) # \xa0 indica missing # Cambiados por NA for j in tipos: for i in range(0,len(especificas)): **if** j[i] == '\xa0': j[i]= 'NA' In [90]: # LINKS 11 = [] for i in range(0,len(especificas)): pal1 = re.search('"(datasets/.+?)"',especificas[i]).group() pal2 = re.search('[^"].+[^"]',pal1).group() 11.append(pal2) 12 = [] for i in range(0,len(l1)): pal = 'https://archive.ics.uci.edu/ml/'+l1[i] 12.append(pal) # Links parte III 13 = [] for i in range(0,len(l1)): html = requests.get(12[i]).text s_html = BeautifulSoup(html, "lxml") pal_a = s_html.find_all('a') html_nue = re.findall('<a(href="../machine-learning-databases/.+?">)',str(pal_a)) if html_nue == []: 13.append('NA') else: 13.append(html_nue[0]) In [92]: | 1_def = [] for i in range(0,len(especificas)): **if** 13[i] == 'NA': 1_def.append('NA') else: pal1 = re.search('/.+[^">]',13[i]).group() pal2 = 'https://archive.ics.uci.edu/ml'+pal1 l_def.append(pal2) In [99]: | tabla = {"Base de datos": nombres, "Tipo de datos": tipos[0], "Tipo de tarea a resolver": tipos[1], "Tipo de variables": tipos[2], "Número de obs": tipos[3], "Número de variables": tipos[4], "Año": tipos[5], "Links": l_def} definitiva = pd.DataFrame(tabla) # Ordenando el data frame definitiva["nombres mayu"] = definitiva["Base de datos"].str.upper() definitiva.sort_values(["nombres mayu"], axis=0, ascending=[True], inplace=True) # Borramos la variable creada del data frame del definitiva["nombres mayu"] In [100]: # Descripción de la base link = requests.get('https://archive.ics.uci.edu/ml/datasets.php?format=&task=&area=&numAtt=&numIns=&type=&sort=nameUp&view =list').text s_link = BeautifulSoup(link, "lxml") des = re.findall('<a href="datasets[\s\S]*?</p>',str(s_link)) descripcion = [] for i in range(0,len(des)): try: pal1 = re.search('([\s\S]*?)',des[i]).group() pal2 = re.search('[^:][\s\S]*[^]',pal1).group() descripcion.append(re.sub('\r\n', '',pal2)) except AttributeError: descripcion.append('NA') definitiva['Descripción base datos'] = descripcion # Resultado definitiva Out[100]: Número Número Descripción bas Tipo de Tipo de tarea Tipo de Año Links Base de datos de datos variables a resolver de obs datc variables 2.4 GHZ Indoor Measurement of th https://archive.ics.uci.edu/ml/machine-462 Channel Classification Real 7840 5 2018 S21, consists of 10 Multivariate learnin... Measurements sweeps, ... 3D road network 3D Road Network https://archive.ics.uci.edu/ml/machine-Sequential, Regression, 237 (North Jutland, Real 434874 2013 with highly accurat learnin... Text Clustering Denmark) elevation... This data set https://archive.ics.uci.edu/ml/machine-AAAI 2013 Multivariate Clustering NA 150 2014 compromises the **Accepted Papers** learnin... metadata for the... This data set **AAAI 2014** https://archive.ics.uci.edu/ml/machine-Multivariate Clustering NA 399 6 2014 compromises the **Accepted Papers** learnin... metadata for the... Predict the age of Categorical, https://archive.ics.uci.edu/ml/machine-Classification 4177 1995 **Abalone** Multivariate 8 abalone from Integer, learnin... Real physical measu... The objective is to Causal-Abscisic Acid https://archive.ics.uci.edu/ml/machine-2008 determine the set of 300 43 Multivariate Integer Signaling Network Discovery learnin... boole... The database was Classification, Absenteeism at Multivariate, Integer, https://archive.ics.uci.edu/ml/machine-2018 created with 427 740 21 learnin... work Clustering Time-Series Real records of absen... This dataset Activities of Daily Multivariate, Classification, comprises https://archive.ics.uci.edu/ml/machine-Living (ADLs) NA 2747 NA 2013 260 Sequential, Clustering learnin... information Time-Series Recognition ... regarding t... Activity Univariate, The dataset collect Recognition from Classification, https://archive.ics.uci.edu/ml/machine-Real NA 2014 data from a Sequential, NA Single Chest-Clustering learnin... Time-Series wearable acce... Mounted... Activity Multivariate, This dataset Recognition https://archive.ics.uci.edu/ml/machine-2016 Classification Real 42240 6 contains temporal Sequential, system based on learnin... Time-Series data from a Wir... Multisens... Activity recognition Sequential motion https://archive.ics.uci.edu/ml/machine-2016 with healthy older Classification Real 75128 9 data from 14 Sequential learnin... people... healthy older p... The data was https://archive.ics.uci.edu/ml/machinecreated by a Acute Categorical, Multivariate Classification 120 6 2009 **Inflammations** learnin... medical expert as Integer Predict whether Categorical https://archive.ics.uci.edu/ml/machine-Classification 14 Adult 48842 1996 income exceeds Multivariate Integer learnin... \$50K/yr based o... Contains the Multivariate, https://archive.ics.uci.edu/ml/machine-**371** Air quality 2016 Regression Real 9358 15 responses of a gas Time-Series learnin... multisensor de... Contains the Multivariate, https://archive.ics.uci.edu/ml/machine-345 Air Quality Regression Real 9358 15 2016 responses of a gas Time-Series learnin... multisensor de.. NASA data set, https://archive.ics.uci.edu/ml/machine-279 Airfoil Self-Noise 2014 obtained from a Regression 1503 6 Multivariate Real learnin... series of aerod.. Five different QCM 476 Alcohol QCM Classification, 2019 https://archive.ics.uci.edu/ml/machine-Multivariate Regression, 125 Real das sensors are Sensor Dataset learnin... Clustering used, and f... Time-Regression, Amazon's InfoSec Clustering, Amazon Access Series, https://archive.ics.uci.edu/ml/machine-NA 20000 2011 208 30000 is getting smarter Samples Causallearnin... Domainabout the ... Discovery Theory Multivariate, The dataset is use Amazon Text, https://archive.ics.uci.edu/ml/machine-Commerce reviews Classification 2011 for authorship 207 Real 1500 10000 Domainlearnin... identificat... set Theory Categorical, https://archive.ics.uci.edu/ml/machine-Steel annealing Classification 798 38 NA Annealing Multivariate Integer, learnin... data Real Log of anonymous https://archive.ics.uci.edu/ml/machineusers of Anonymous Recommender-294 1998 NA Categorical 37711 Microsoft Web Dat learnin... **Systems** www.microsoft.con Acoustic features Classification, Anuran Calls https://archive.ics.uci.edu/ml/machine-2017 Real extracted from 390 Multivariate 7195 22 (MFCCs) Clustering learnin... syllables of ... Experimental data Multivariate, https://archive.ics.uci.edu/ml/machine-Appliances energy 2017 Regression 19735 29 used to create Real prediction Time-Series learnin... regression mo... The datasets' APS Failure at https://archive.ics.uci.edu/ml/machine-Integer, Classification 171 2017 Multivariate 60000 positive class Scania Trucks Real learnin... consists of compo. ARCENE's task is https://archive.ics.uci.edu/ml/machine-2008 to distinguish 164 Arcene Classification Real 900 10000 Multivariate learnin... cancer versus ... Categorical, Distinguish betwee https://archive.ics.uci.edu/ml/machine-Classification 452 279 1998 the presence and Arrhythmi Multivariate Integer, learnin... Real absence o... Dataset artificially Categorical, https://archive.ics.uci.edu/ml/machine-Artificial Characters | Multivariate 1992 Classification 6000 generated by using Integer, learnin... Real first ... Audiology https://archive.ics.uci.edu/ml/machine-Nominal audiology Classification 226 NA 1987 Multivariate Categorical (Original) learnin... dataset from Baylo Standardized Audiology https://archive.ics.uci.edu/ml/machine-1992 Classification Categorical 226 69 version of the Multivariate (Standardized) learnin... original audiology.. Exhaustive one https://archive.ics.uci.edu/ml/machineyear non-457 Audit Dat Classification 777 18 2018 Multivariate Real learnin... confidential data in It is the real datase User Knowledge Classification, https://archive.ics.uci.edu/ml/machine-Multivariate 403 5 2013 about the students 248 Integer Modelina Clustering learnin... kno... **USPTO** Algorithm Data used for https://archive.ics.uci.edu/ml/machine-Domain-257 Challenge, run by USPTO Algorithm 2013 Classification Integer 306 5 learnin... Theory NASA-Harvard... Competition. Con.. Data set containing https://archive.ics.uci.edu/ml/machine-204 | Vertebral Column Classification Real 310 6 2011 values for six Multivariate learnin... biomechanic... The Physical Actio Vicon Physical https://archive.ics.uci.edu/ml/machine-2011 Data Set includes 206 Classification 27 Time-Series Real 3000 Action Data Set learnin... 10 norma... Victorian Era To create the https://archive.ics.uci.edu/ml/machine-2018 NA 93600 1000 largest authorship **436** Authorship Text Classification learnin... Attribution attribution d... Volcanoes on The JARtool projec https://archive.ics.uci.edu/ml/machine-139 Venus - JARtool Image Classification NA NA NA NA was a pioneering learnin... experiment effort to... Wall-Following The data were Multivariate, https://archive.ics.uci.edu/ml/machine-Robot Navigation Classification Real 5456 24 2010 collected as the 190 Sequential learnin... Dat SCITOS G5 robot. Water Treatment Multiple classes Integer, https://archive.ics.uci.edu/ml/machine-Clustering 527 38 1993 103 Multivariate Plant Real learnin... predict plant state This data set Wave Energy https://archive.ics.uci.edu/ml/machine-2019 consists of positior Multivariate Regression Real 288000 49 Converters learnin... and absorb... Waveform Multivariate, Database https://archive.ics.uci.edu/ml/machine-CART book's Data-Real 5000 21 1988 104 Classification Generator (Version learnin... waveform domains Generator Waveform Multivariate, CART book's Database https://archive.ics.uci.edu/ml/machine-1988 5000 40 Data-Classification Real Generator (Version learnin... waveform domains Generator Wearable A dataset with 5 Computing: https://archive.ics.uci.edu/ml/machine-Integer, 2013 classes (sitting-Classification 165632 18 Sequential Classification of Real learnin... down, standi... Body Pos... https://archive.ics.uci.edu/ml/machine-Classification 363 | Website Phishing Multivariate Integer 1353 10 2016 learnin... Weight Lifting Six young health https://archive.ics.uci.edu/ml/machine-Exercises 39242 152 2013 subjects were Multivariate Classification Real monitored with learnin... asked to perfor... Inerti... WESAD (Wearable WESAD (Wearable Multivariate, Classification, https://archive.ics.uci.edu/ml/machine-Real 63000000 12 Stress and Affect 2018 Stress and Affect Time-Series Regression learnin... Detection) Detection) c... The data set refers Classification, Wholesale https://archive.ics.uci.edu/ml/machine-280 Multivariate 440 8 2014 to clients of a Integer customers Clustering learnin... wholesale ... Regression, Survey of faculty Clustering, https://archive.ics.uci.edu/ml/machinemembers from two **321** wiki4HE NA 913 53 2015 Multivariate Causallearnin... Spanish uni... Discovery High-resolution https://archive.ics.uci.edu/ml/machine-**273** | Wilt Remote Sensing Classification NA 4889 6 2014 Multivariate learnin... data set (Quick... Using chemical https://archive.ics.uci.edu/ml/machine-Integer, analysis determine **106** Wine Multivariate Classification 178 13 1991 Real learnin... the origin o... Two datasets are Classification, https://archive.ics.uci.edu/ml/machine-12 2009 182 | Wine Quality Multivariate Real 4898 included, related to Regression learnin... red and ... Collected in indoor Wireless Indoor https://archive.ics.uci.edu/ml/machine-2017 Multivariate Classification Real 2000 space by observing Localization learnin... signal ... **WISDM** Contains accelerometer and Smartphone and https://archive.ics.uci.edu/ml/machine-Multivariate Classification Integer 120 NA 2019 Smartwatch Activity learnin... gyroscope timeand B... seri... Delft data set, used https://archive.ics.uci.edu/ml/machine-Yacht Real 308 2013 234 Regression to predict the Multivariate learnin... Hydrodynamics hydodynami... Prediction of the https://archive.ics.uci.edu/ml/machine-196 | YearPredictionMSD Multivariate Regression Real 515345 90 2011 release year of a learnin... song from ... Predicting the https://archive.ics.uci.edu/ml/machine-107 Yeast Real 1484 1996 Cellular Localizatic Multivariate Classification 8 learnin... Sites of ... YouTube Comedy This dataset https://archive.ics.uci.edu/ml/machine-2012 215 Slam Preference NA provides user vote Text Classification 1138562 3 learnin... Dat data on which ... YouTube Multiview This dataset Multivariate, Classification, https://archive.ics.uci.edu/ml/machine-Integer, Video Games 1000000 2013 258 120000 contains about 120 Text Clustering Real learnin... Dataset instances, ea... It is a public set of YouTube Spam https://archive.ics.uci.edu/ml/machine-2017 comments collecte Text Classification NA 1956 5 Collection learnin... for s... https://archive.ics.uci.edu/ml/machine-It was collected for Integer, 303 396 Z-Alizadeh Sani Classification CAD diagnosis. Real learnin... Categorical, https://archive.ics.uci.edu/ml/machine-Artificial, 7 classes Classification 101 17 **108** Zoo Multivariate 1990 Integer learnin... of animals 488 rows × 9 columns ->