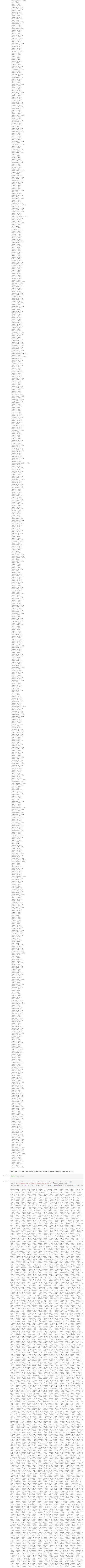
) (mplement some portion within them. Instructions will be provided for each section and the specifics of the mplementation are marked in the code block with a # TODO: comment. Please be sure to read the nstructions carefully! n addition to implementing code, there will be questions for you to answer which relate to the task and your implementation. Each section where you will answer a question is preceded by a 'Question:' header. Carefully read each question and provide your answer below the 'Answer:' header by editing the Markdown cell. Note: Code and Markdown cells can be executed using the Shift+Enter keyboard shortcut.
	In addition, a cell can be edited by typically clicking it (double-click for Markdown cells) or by pressing Enter while it is highlighted. General Outline Recall the general outline for SageMaker projects using a notebook instance. 1. Download or otherwise retrieve the data. 2. Process / Prepare the data. 3. Upload the processed data to S3. 4. Train a chosen model.
Fctk	5. Test the trained model (typically using a batch transform job). 6. Deploy the trained model. 7. Use the deployed model. For this project, you will be following the steps in the general outline with some modifications. First, you will not be testing the model in its own step. You will still be testing the model, however, you will do it by deploying your model and then using the deployed model by sending the test data to it. One of the reasons for doing this is so that you can make sure that your deployed model is working correctly before moving forward. In addition, you will deploy and use your trained model a second time. In the second iteration you will customize the way that your trained model is deployed by including some of your own code. In addition,
>	# Make sure that we use SageMaker 1.x !pip install sagemaker==1.72.0 Collecting sagemaker==1.72.0 Downloading sagemaker-1.72.0.tar.gz (297 kB)
	Pytothin_latest_p36/lib/python3.6/site-packages (from sagemaker=1.72.0) (0.16.3) Requirement already satisfied: scipy>=0.19.0 in /home/ec2-user/anaconda3/envs/amazor pytorch_latest_p36/lib/python3.6/site-packages (from sagemaker==1.72.0) (0.1.5) Collecting smdebug-rulesconfig==0.1.4 Downloading smdebug-rulesconfig=0.1.4-py2.py3-none-any.whl (10 kB) Requirement already satisfied: importlib-metadata>=1.4.0 in /home/ec2-user/anaconda3/ nvs/amazonei_pytorch_latest_p36/lib/python3.6/site-packages (from sagemaker==1.72.0) (4.5.0) Requirement already satisfied: packaging>=20.0 in /home/ec2-user/anaconda3/envs/amazorei_pytorch_latest_p36/lib/python3.6/site-packages (from sagemaker==1.72.0) (4.5.0) Requirement already satisfied: packaging>=20.0 in /home/ec2-user/anaconda3/envs/amazorei_pytorch_latest_p36/lib/python3.6/site-packages (from sagemaker==1.72.0) (2.0.9) Requirement already satisfied: jmespath<1.0.0,>=0.7.1 in /home/ec2-user/anaconda3/envs/amazorei_pytorch_latest_p36/lib/python3.6/site-packages (from boto3>=1.14.12->sageker==1.72.0) (0.10.0) Requirement already satisfied: s3transfer<0.6.0,>=0.5.0 in /home/ec2-user/anaconda3/envs/amazonei_pytorch_latest_p36/lib/python3.6/site-packages (from boto3>=1.14.12->sageker==1.72.0) (0.1.0.0) Requirement already satisfied: botocore<1.22.0,>=1.21.45 in /home/ec2-user/anaconda3/envs/amazonei_pytorch_latest_p36/lib/python3.6/site-packages (from boto3>=1.14.12->sagemaker==1.72.0) (1.21.45) Requirement already satisfied: urllib3<1.27,>=1.25.4 in /home/ec2-user/anaconda3/envs/amazonei_pytorch_latest_p36/lib/python3.6/site-packages (from botocore<1.22.0,>=1.21.65->boto3>=1.14.12->sagemaker==1.72.0) (1.26.5) Requirement already satisfied: pypensonsonsonsonsonsonsonsonsonsonsonsonson
	327 sha256=83aa49be54a2c57bf984ee044f539935354e128a3e28e7e7c2cb36bd96c864fc Stored in directory: /home/ec2-user/.cache/pip/wheels/c3/58/70/85faf4437568bfaa4c4 937569ba1fe54d44c5db42406bbd7 Successfully built sagemaker Installing collected packages: smdebug-rulesconfig, sagemaker Attempting uninstall: smdebug-rulesconfig Found existing installation: smdebug-rulesconfig 1.0.1 Uninstalling smdebug-rulesconfig-1.0.1: Successfully uninstalled smdebug-rulesconfig-1.0.1 Attempting uninstall: sagemaker Found existing installation: sagemaker 2.59.3 Uninstalling sagemaker-2.59.3: Successfully uninstalled sagemaker-2.59.3 Successfully uninstalled sagemaker-2.59.3 Successfully installed sagemaker-2.59.3 Successfully installed sagemaker-2.59.0 smdebug-rulesconfig-0.1.4 WARNING: You are using pip version 21.2.4; however, version 21.3 is available. You should consider upgrading via the '/home/ec2-user/anaconda3/envs/amazonei_pytorolatest_p36/bin/python -m pip installupgrade pip' command. Step 1: Downloading the data As in the XGBoost in SageMaker notebook, we will be using the IMDb dataset Maas, Andrew L., et al. Learning Word Vectors for Sentiment Analysis. In Proceedings of the
	### 49th Annual Meeting of the Association for Computational Linguistics: Human Language Technologies. Association for Computational Linguistics, 2011. *mkdir/data !wget -0/data/aclImdb_v1.tar.gz http://ai.stanford.edu/~amaas/data/sentiment/acl !tar -zxf/data/aclImdb_v1.tar.gz -C/data mkdir: cannot create directory '/data': File exists2021-10-15 15:16:13 http://ai.stanford.edu/~amaas/data/sentiment/aclImdb_v1.tar.gz Resolving ai.stanford.edu (ai.stanford.edu) 171.64.68.10 Connecting to ai.stanford.edu (ai.stanford.edu) 171.64.68.10 :80 connected. HTTP request sent, awaiting response 200 OK
<i>(</i>	HTTP request sent, awaiting response 200 OK Length: 84125825 (80M) [application/x-gzip] Saving to: '/data/aclImdb_v1.tar.gz'/data/aclImdb_v1. 100% [===================================
	<pre>data[data_type] = {} labels[data_type] = {} for sentiment in ['pos', 'neg']: data[data_type][sentiment] = [] labels[data_type][sentiment] = [] path = os.path.join(data_dir, data_type, sentiment, '*.txt') files = glob.glob(path) for f in files: with open(f) as review: data[data_type][sentiment].append(review.read()) # Here we represent a positive review by '1' and a negative rev labels[data_type][sentiment].append(1 if sentiment == 'pos' els assert len(data[data_type][sentiment]) == len(labels[data_type][sentiment == 'quadrata' (data_type)] return data, labels</pre>
١	<pre>data, labels = read_imdb_data() print("IMDB reviews: train = {} pos / {} neg, test = {} pos / {} neg".format(</pre>
	<pre>def prepare_imdb_data(data, labels): """Prepare training and test sets from IMDb movie reviews.""" #Combine positive and negative reviews and labels data_train = data['train']['pos'] + data['train']['neg'] data_test = data['test']['pos'] + data['test']['neg'] labels_train = labels['train']['pos'] + labels['train']['neg'] labels_test = labels['test']['pos'] + labels['test']['neg'] #Shuffle reviews and corresponding labels within training and test sets data_train, labels_train = shuffle(data_train, labels_train) data_test, labels_test = shuffle(data_test, labels_test) # Return a unified training data, test data, training labels, test labets</pre>
	<pre>return data_train, data_test, labels_train, labels_test train_X, test_X, train_y, test_y = prepare_imdb_data(data, labels) print("IMDb reviews (combined): train = {}, test = {}".format(len(train_X), len(test)) IMDb reviews (combined): train = 25000, test = 25000 Now that we have our training and testing sets unified and prepared, we should do a quick check and see an example of the data our model will be trained on. This is generally a good idea as it allows you to see now each of the further processing steps affects the reviews and it also ensures that the data has been oaded correctly.</pre>
	print(train_X[100]) print(train_y[100]) STAR RATING: ***** Saturday Night **** Friday Night *** Friday Morning ** Sunday Nig * Monday Morning * Monday Morning * Monday Morning * />
	<pre>from nltk.corpus import stopwords from nltk.stem.porter import * import re from bs4 import BeautifulSoup def review_to_words(review): nltk.download("stopwords", quiet=True) stemmer = PorterStemmer() text = BeautifulSoup(review, "html.parser").get_text() # Remove HTML tags text = re.sub(r"[^a=zA-Z0-9]", " ", text.lower()) # Convert to lower case words = text.split() # Split string into words words = [w for w in words if w not in stopwords.words("english")] # Remove stop words = [PorterStemmer().stem(w) for w in words] # stem return words</pre>
i	The review_to_words method defined above uses BeautifulSoup to remove any html tags that appear and uses the nltk package to tokenize the reviews. As a check to ensure we know how everything s working, try applying review_to_words to one of the reviews in the training set. # TODO:review_to_words(train_X[100]) Apply review_to_words to a review (train_X[100] review_to_words(train_X[100])) ['star', 'rate', 'saturday', 'inight', 'friday', 'night', 'friday', 'frida
	<pre>'friday', 'morn', 'sunday', 'night', 'monday', 'morn', 'long', 'time', 'inmat', 'twitch', 'kurupt', 'get', 'transfer', 'tougher', 'prison', 'open',</pre>
	<pre>'alcatraz', 'claim', 'closer', 'ladi', 'real', 'motiv', 'bit', 'grandios', 'cross', 'path', 'burk', 'bill', 'goldberg', 'bulki', 'prison', 'take',</pre>
	<pre>'care', 'twitch', 'despit', 'less', 'muscular', 'mouthi', 'pretti', 'much', 'gang', 'war', 'brew', 'black', 'hispan', 'inmat', 'explod',</pre>
	<pre>'hostil', 'takeov', 'prison', 'black', 'gang', 'leader', 'shot', 'dead', 'finger', 'point', 'burk', 'sh', 'realli', 'hit',</pre>
	<pre>'fan', 'real', 'killer', 'leader', 'hispan', 'cortez', 'robert', 'madrid', 'take', 'twitch', 'girlfriend', 'burk', 'daughter', 'hostag', 'steven',</pre>
	<pre>'seagal', 'sequel', 'reportedli', 'oppos', 'idea', 'sieg', '2', 'agre', 'condit', 'film', 'compani', 'time', 'let', 'direct', 'movi',</pre>
	<pre>'despit', 'dvd', 'sequel', 'lead', 'role', 'time', 'round', 'goe', 'bill', 'golberg', 'steve', 'even', 'appear', 'stock', 'footag',</pre>
	<pre>'first', 'film', 'appear', 'toward', 'end', 'reason', 'done', 'much', 'work', 'sinc', 'univers', 'soldier', '2', 'much', 'actor',</pre>
	<pre>'much', 'action', 'star', 'either', 'manag', 'charact', 'begin', 'dark', 'brood', 'unsubtli', 'turn', 'standard', 'action', 'hero', 'awkwardli',</pre>
	<pre>'quip', 'dull', 'one', 'liner', 'support', 'wise', 'veteran', 'first', 'film', 'kurupt', 'toni', 'plana', 'mere', 'jump',</pre>
	<pre>'chanc', 'extra', 'work', 'film', 'tri', 'copi', 'style', 'origin', 'quit', 'well', 'dim', 'light', 'dark', 'shadow', 'rap', 'music',</pre>
	<pre>'play', 'lot', 'quit', 'well', 'unfortun', 'contend', 'unengag', 'hero', 'equal', 'cardboard', 'villain', 'apathet', 'stori', 'maker', 'much',</pre>
t t	'seem', 'made', 'went', 'along'] Question: Above we mentioned that review_to_words method removes html formatting and allows us to tokenize the words found in a review, for example, converting entertained and entertaining into entertains to that they are treated as though they are the same word. What else, if anything, does this method do to the input? Answer: The review_to_words removes none related words
T T	The review_to_words removes punctuation marks for example ' The method below applies the review_to_words method to each of the reviews in the training and testing datasets. In addition it caches the results. This is because performing this processing step can take a ong time. This way if you are unable to complete the notebook in the current session, you can come back without needing to process the data a second time.
	<pre>import pickle cache_dir = os.path.join("/cache", "sentiment_analysis") # where to store cache os.makedirs(cache_dir, exist_ok=True) # ensure cache directory exists def preprocess_data(data_train, data_test, labels_train, labels_test,</pre>
	<pre>with open(os.path.join(cache_dir, cache_file), "rb") as f:</pre>
	<pre># Write to cache file for future runs if cache_file is not None: cache_data = dict(words_train=words_train, words_test=words_test,</pre>
	<pre># Preprocess data train_X, test_X, train_y, test_y = preprocess_data(train_X, test_X, train_y, test_y) Read preprocessed data from cache file: preprocessed_data.pkl Transform the data n the XGBoost notebook we transformed the data from its word representation to a bag-of-words feature representation. For the model we are going to construct in this notebook we will construct a feature</pre>
t f c c c c c c c c c c c c c c c c c c	representation which is very similar. To start, we will represent each word as an integer. Of course, some of the words that appear in the reviews occur very infrequently and so likely don't contain much information for the purposes of sentiment analysis. The way we will deal with this problem is that we will fix the size of our working vocabulary and we will only include the words that appear most frequently. We will then combine all of the infrequent words into a single category and, in our case, we will label it as 1. Since we will be using a recurrent neural network, it will be convenient if the length of each review is the same. To do this, we will fix a size for our reviews and then pad short reviews with the category 'no word' (which we will label 0) and truncate long reviews. (TODO) Create a word dictionary To begin with, we need to construct a way to map words that appear in the reviews to integers. Here we fix
	the size of our vocabulary (including the 'no word' and 'infrequent' categories) to be 5000 but you may wish to change this to see how it affects the model. TODO: Complete the implementation for the build_dict() method below. Note that even though the vocab_size is set to 5000, we only want to construct a mapping for the most frequently appearing 4998 words. This is because we want to reserve the special labels 0 for 'no word' and 1 for 'infrequent word'. import numpy as np def build_dict(data, vocab_size = 5000): """Construct and return a dictionary mapping each of the most frequently appear
	<pre># TODO: Determine how often each word appears in `data`. Note that `data` is a # sentence is a list of words. word_count = {} # A dict storing the words that appear in the reviews along with # TODO: Sort the words found in `data` so that sorted_words[0] is the most free for review in data: for word in review: if word in word_count: word_count[word] += 1 else: word_count[word] = 1</pre>
	<pre># sorted_words[-1] is the least frequently appearing word. word_count_sorted = sorted(word_count.items(), key=(lambda item: item[1]), reverse sorted_words = [item[0] for item in word_count_sorted] word_dict = {} # This is what we are building, a dictionary that translates word for idx, word in enumerate(sorted_words[:vocab_size - 2]): # The -2 is so that word_dict[word] = idx + 2 # 'infrequent' label' return word_dict word_dict = build_dict(train_X)</pre>
	<pre>word_dict {'movi': 2, 'film': 3, 'one': 4, 'like': 5, 'time': 6, 'good': 7, 'make': 8, 'charact': 9, 'get': 10, 'see': 11, 'watch': 12,</pre>
	<pre>'stori': 13, 'even': 14, 'would': 15, 'realli': 16, 'well': 17, 'scene': 18, 'look': 19, 'show': 20, 'much': 21, 'end': 22, 'peopl': 23, 'bad': 24, 'go': 25, 'great': 26, 'also': 27,</pre>
	'first': 28, 'love': 29, 'think': 30, 'way': 31, 'act': 32, 'play': 33, 'made': 34, 'thing': 35, 'could': 36, 'know': 37, 'say': 38, 'seem': 39, 'work': 40, 'plot': 41,
	'two': 42, 'actor': 43, 'year': 44, 'come': 45, 'mani': 46, 'seen': 47, 'take': 48, 'life': 49, 'want': 50, 'never': 51, 'littl': 52, 'best': 53, 'tri': 54, 'man': 55, 'ever': 56,
	<pre>'give': 57, 'better': 58, 'still': 59, 'perform': 60, 'find': 61, 'feel': 62, 'part': 63, 'back': 64, 'use': 65, 'someth': 66, 'director': 67, 'actual': 68, 'interest': 69, 'lot': 70,</pre>
	<pre>'real': 71, 'old': 72, 'cast': 73, 'though': 74, 'live': 75, 'star': 76, 'enjoy': 77, 'guy': 78, 'anoth': 79, 'new': 80, 'role': 81, 'noth': 82, '10': 83, 'funni': 84, 'music': 85,</pre>
	<pre>point': 86, 'start': 87, 'set': 88, 'girl': 89, 'origin': 90, 'day': 91, 'world': 92, 'everi': 93, 'believ': 94, 'turn': 95, 'quit': 96, 'direct': 97, 'us': 98, 'thought': 99,</pre>
	<pre>'fact': 100, 'minut': 101, 'horror': 102, 'kill': 103, 'action': 104, 'comedi': 105, 'pretti': 106, 'young': 107, 'wonder': 108, 'happen': 109, 'around': 110, 'got': 111, 'effect': 112, 'right': 113, 'long': 114,</pre>
	<pre>'howev': 115, 'big': 116, 'line': 117, 'famili': 118, 'enough': 119, 'seri': 120, 'may': 121, 'need': 122, 'fan': 123, 'bit': 124, 'script': 125, 'beauti': 126, 'person': 127, 'becom': 128,</pre>
	<pre>'without': 129, 'must': 130, 'alway': 131, 'friend': 132, 'tell': 133, 'reason': 134, 'saw': 135, 'last': 136, 'final': 137, 'kid': 138, 'almost': 139, 'put': 140, 'least': 141, 'sure': 142,</pre>
	'done': 143, 'whole': 144, 'place': 145, 'complet': 146, 'kind': 147, 'differ': 148, 'expect': 149, 'shot': 150, 'far': 151, 'mean': 152, 'anyth': 153, 'book': 154, 'laugh': 155, 'might': 156, 'name': 157,
	<pre>'name': 157, 'sinc': 158, 'begin': 159, '2': 160, 'probabl': 161, 'woman': 162, 'help': 163, 'entertain': 164, 'let': 165, 'screen': 166, 'call': 167, 'tv': 168, 'moment': 169, 'away': 170, 'read': 171,</pre>
	<pre>'read': 171, 'yet': 172, 'rather': 173, 'worst': 174, 'run': 175, 'fun': 176, 'lead': 177, 'hard': 178, 'audienc': 179, 'idea': 180, 'anyon': 181, 'episod': 182, 'american': 183, 'found': 184, 'appear': 185,</pre>
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	<pre>job': 193,</pre>
	job': 194, move': 195, sens': 196, dvd': 197, version': 198, war': 199, movey': 200, someon': 201, mind': 202, mayb': 203, problem': 204, true': 205, hous': 206, everyth': 207, mise': 208, second': 210, true': 212, face': 213, follow': 214, recommend': 215, main': 216, main': 216, main': 216, main': 217, worth: 217, worth: 218, main': 218, second': 219, main': 216, main': 216, main': 217, worth: 217, worth: 218, main': 218, main': 219, main': 220, second: 223, second: 223, second: 223, second: 223, second: 223, second: 224, sound: 225, severyon': 226, severyon': 226, severyon': 226, severyon': 228, severyon': 228, severyon': 228, severyon': 234, second: 236, second: 236, second: 237, second: 238,
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import sagemaker

sagemaker session = sagemaker.Session()

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