

# CourseBuddyAI User Guide Documentation

## 1. Software Installation

### 1.1. Chrome Web Store Installation (Recommended)

CourseBuddyAI is currently available as a browser extension on the Chrome web store.

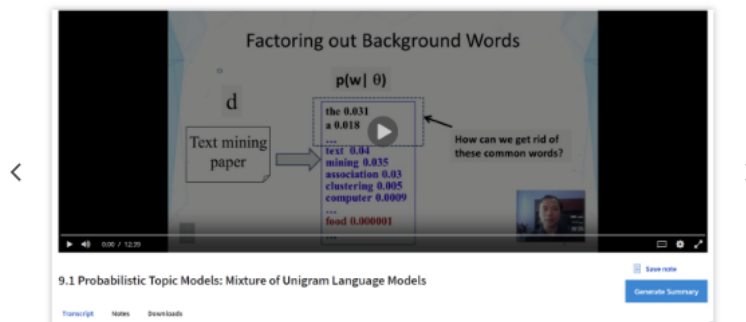
**Note:** It can only be accessed and installed from the below link

<https://chromewebstore.google.com/detail/coursebuddyai/lcoikcmmgmfmccakgbfgobbnmamaibnhm?hl=en>

1. Click on the Add to Chrome button next to the extension.



Extension Tools




## Overview

CourseBuddyAI is a Chrome extension that enhances the Coursera Platform, allowing users to upload lecture files for summarization.

CourseBuddyAI: Enhance Your Coursera Learning Experience with the power of AI!

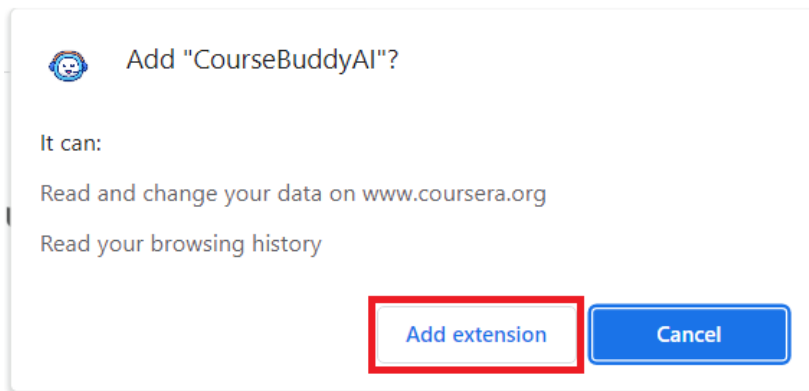
CourseBuddyAI is your ultimate companion for Coursera courses, designed to enhance your learning experience by providing automated summaries of course content. It leverages the power of ChatGPT to generate concise and informative summaries from lecture transcripts/slides and answer students questions through a chatbot interface.

 Features:

CourseBuddyAI offers a range of features to streamline your learning process:

- Automated Summaries: Generate concise summaries of course content from uploaded lecture transcripts and slides (PDF/PPT).

2. A confirmation dialog box will appear. Click on Add extension to confirm.



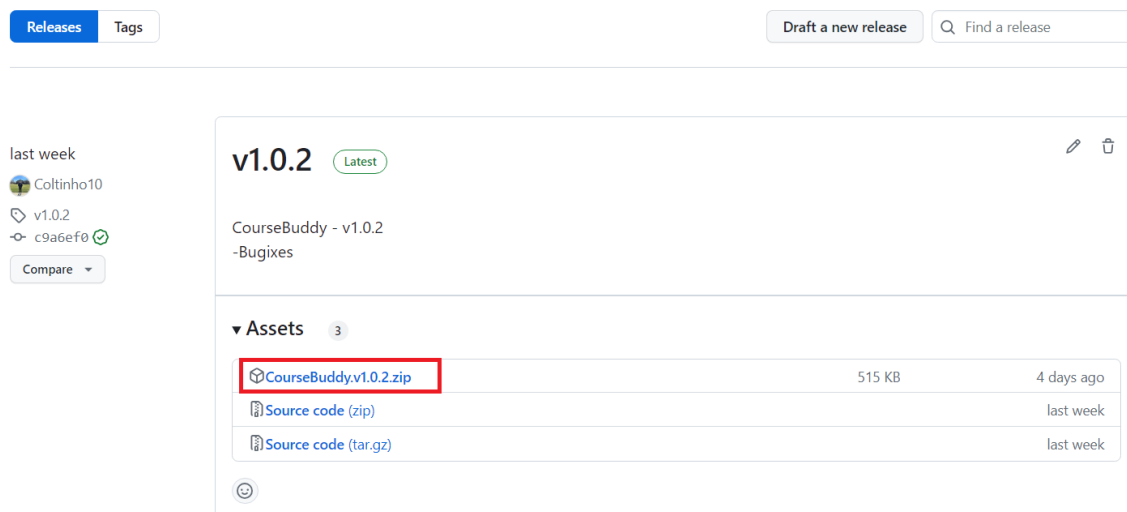
3. The extension will now be downloaded and added to your Chrome browser. You can see it in the top right corner of the browser, next to the address bar.
4. If you can't see the extension, click on the puzzle piece icon in the top right corner to see all your extensions.
5. It recommended you pin the extension to your toolbar for easy access.

## 1.2. Manual Installation

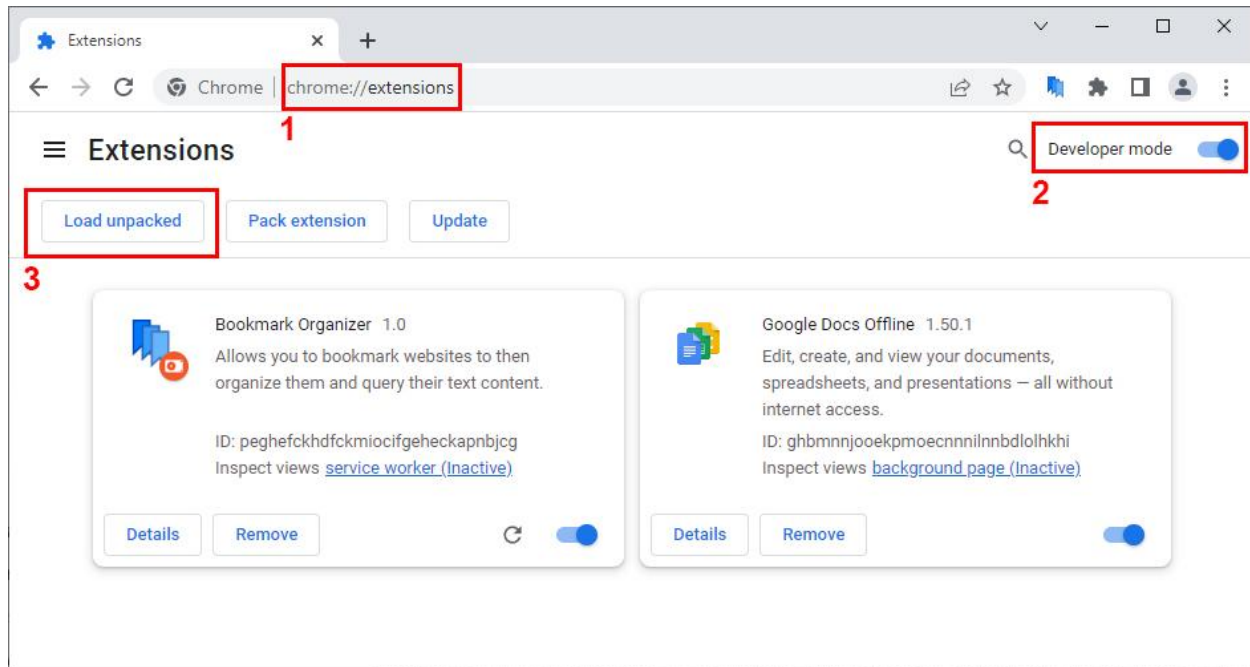
If you would like to install it manually instead, navigate to our GitHub repo releases page:

[https://github.com/abaldeo/CS410\\_CourseProject/releases](https://github.com/abaldeo/CS410_CourseProject/releases)

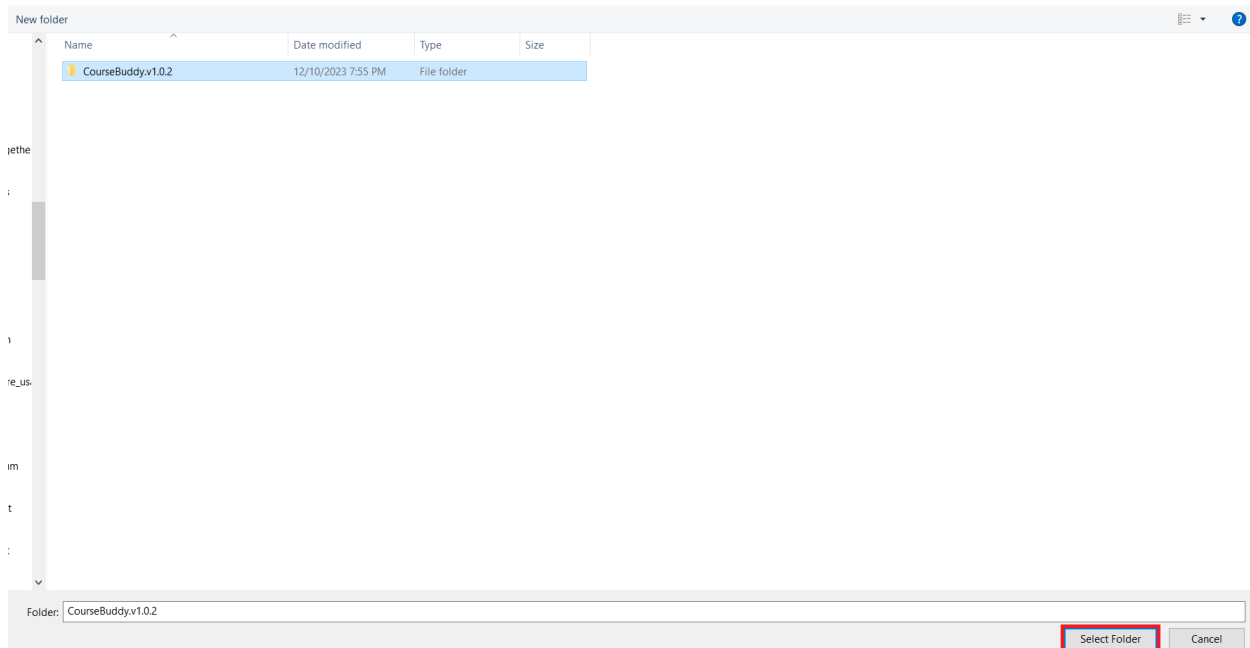
1. Find the latest release and download the zip file that starts with “CourseBuddy”



2. Extract the downloaded zip file to a folder on your computer.
3. In a new Chrome tab, navigate to the URL: **chrome://extensions**
4. Enable "Developer mode" if it is disabled
5. Click the "Load unpacked" button



6. Navigate the the unzipped extension folder and select it to import it

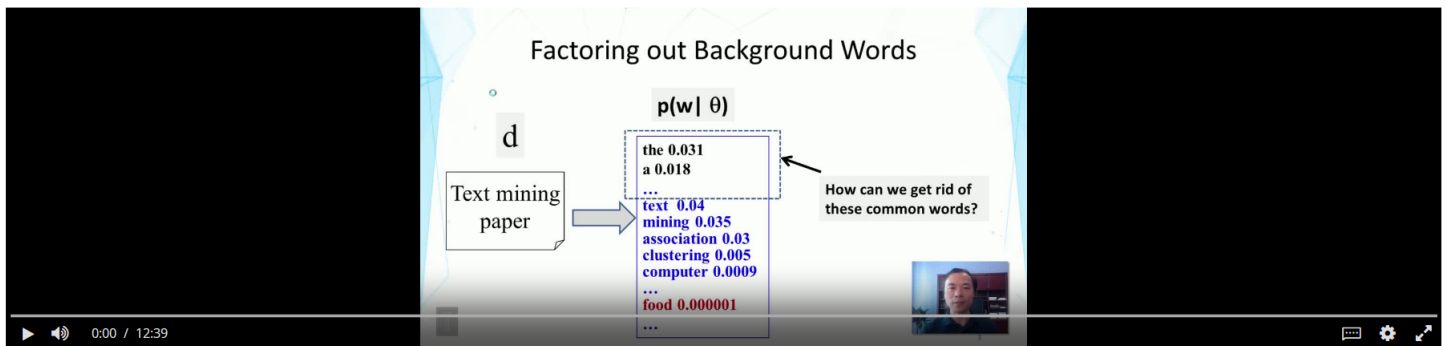


7. It recommended you pin the extension to your toolbar for easy access.

## 2. Software Usage Guide

### 2.1. How to Generate a Summary for a Lecture Video

- While on a page of coursera that contains a video lecture, click the 'Generate Summary' button and an embedded summary will appear on the page.



#### 9.1 Probabilistic Topic Models: Mixture of Unigram Language Models

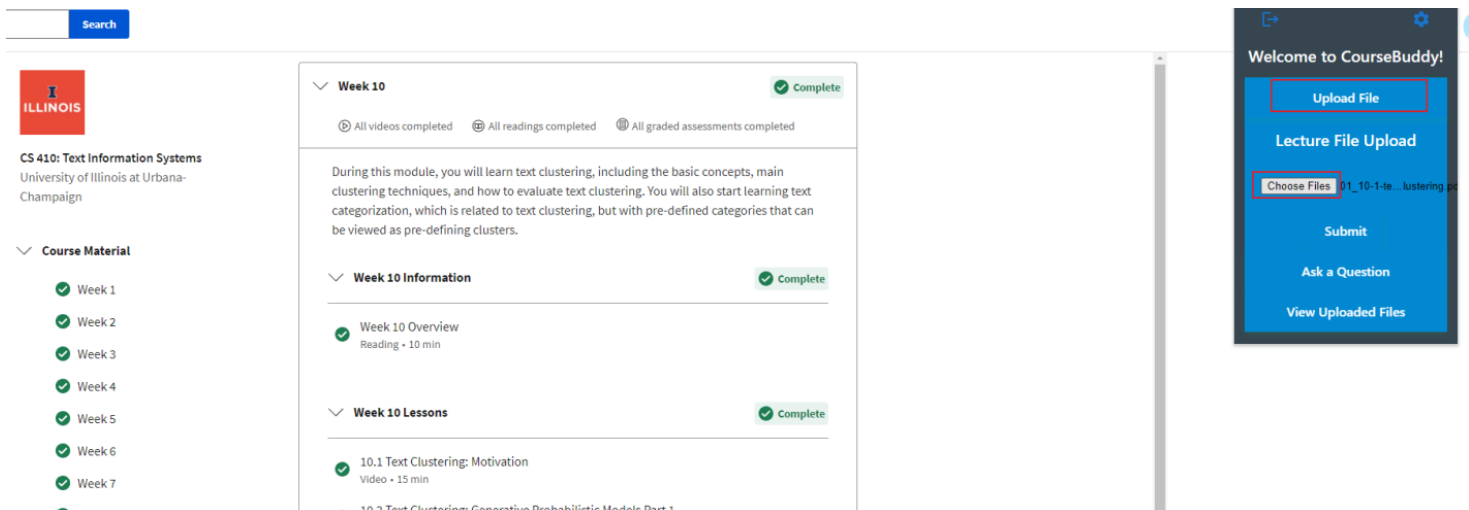
[Save note](#)

[Generate Summary](#)

- Text discusses the concept of mixture of unigram language models in probabilistic topic models.
- Problem addressed is the presence of frequent background words that skew maximum likelihood estimation.
- Solution proposed is to use a background topic model to account for common words.
- Word generation involves flipping a coin to decide which distribution to use.
- Probability of observing a word from mixture model is sum of probabilities of selecting each component model.
- Parameters of the model, including word distributions and topic coverage, can be estimated using data.
- Likelihood function is similar to previous model, but with a sum instead of one distribution.
- Maximum likelihood estimator is used to find parameters that maximize likelihood function.
- Estimation is subject to constraints.
- Mixture models are a general form for handling this problem.
- Mixture models help address the issue of frequent background words in data.
- Background topic model helps account for common words in the mixture model.

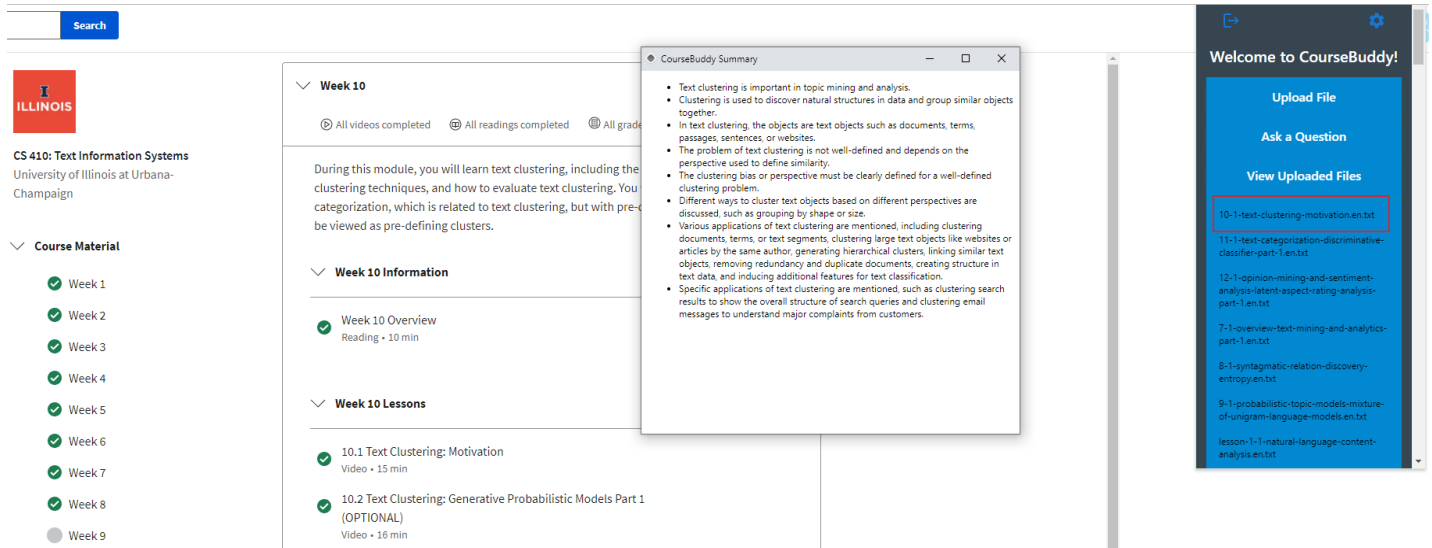
### 2.2. How to Upload Lecture Transcripts/Slides

- Select 'Upload File' and from there you can upload a .txt or .pdf file



## 2.3. How to View Generated Summaries

- Select a file from the uploaded file list and a pop up will load the summary for that lecture.



## 2.4. How to Ask the Chatbot Questions

- Select 'Ask a Question' that will cause a pop up to appear.
- This pop up is now the chatbox, type in a question and press enter or click the 'send' button. Then your question will be answered with a source citing to the specific lecture the answer was derived from.

