



HTML, Visual Studio Code & Flask



DISCLAIMER

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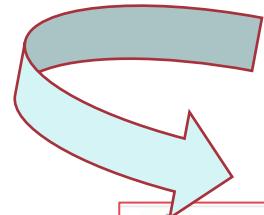
LEARNING OBJECTIVES

At the end of this session, you will learn:

- Steps to install Visual Studio
- Writing HTML Script
- Web Application through Flask



SO FAR WE HAVE DONE...



jupyter insurance Last Checkpoint: 03/28/2022 (autosaved)

File Edit View Insert Cell Kernel Widgets Help

In [24]:
1 172.5230
2 4449.46200
3 21984.47061
4 3866.85520
Name: charges, dtype: float64

In [25]:
s = StandardScaler()
x_train = s.fit_transform(x_train)

In [26]:
SGD = SGDRegressor()
SGD.fit = SGD.fit(x_train, y_train)

In [27]:
score = SGD.score(x_train, y_train)
print("R-Sq: ", score)
R-Sq: 0.1198867180644928

In [28]:
SGD.coef_

Out[28]:
array([3528.77227364, 2040.39540307, 716.00665357])

Creating pickle file

In [29]:
import pickle

pickle_out = open("InsuranceModel.pkl", "wb")
pickle.dump(SGD, pickle_out)

In []:

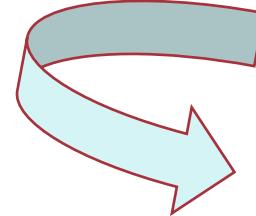


We have made
the ML Model
and pickled it

The next Plan

Insurance Charges Claim

We will make a simple website for using our ML Model by users through deployment. Deployment part will be done after the website creation.



Input values:

Age: *

BMI: *

Children: *

Submit

{% if result %} {{ for variable, value in original_input.items() }} :
{{ value }} {% endif %}

Predicted Charges Claim:

{{ result }}

{% endif %}



The next Plan

HTML and Visual Studio will be used!

Insurance Charges Claim

We will make a simple website for using our ML Model by users through deployment. Deployment part will be done after the website creation

Input values:

Age: *

BMI: *

Children: *

```
{% if result %} {% for variable, value in original_input.items()%} {{ variable }} :  
    {{ value }} {% endfor %}
```

Predicted Charges Claim:

{}{{ result }}{}

```
{% endif %}
```



Visual Studio will help us in seeing the creations so that if needed we can modify our html codes!

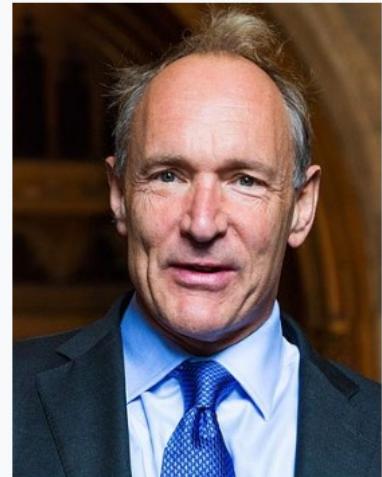
What is the full form of HTML?

HTML stands for hyper text markup language. It is a hyper text markup language used to create web pages. It is written in the form of HTML elements. Hyperlink refers to a series of connections in a page to other pages. Markup language means tags are used to define the page layout and elements within the page. Its main focus is on how to display information on web pages, i.e. the webpages we see on the internet are written using HTML code. HTML documents are interpreted and displayed by web browsers. Some famous web browsers are: Google Chrome, Mozilla Firefox, Opera, Safari, Internet Explorer etc.

HTML was developed by Tim Berners-Lee in late 1990s. It was initially released in 1993. Till then, many HTML versions have been released. Current HTML5 version is gaining popularity due to its several extensive features. Some of which are as follows:

- **Video:** The video element allows the users to stream video from a website.
- **Figure:** The figure element helps display visual content such as photos, illustrations, diagrams etc.
- **Section:** The section elements, such as divs, help organize webpage content into thematic groups.
- **NAV:** It is used for that part of a website which is linked to other pages of the website.
- **Header:** It allows to group together introductory elements on a website like logo, navigation items, search form etc.
- **Footer:** It is located at the bottom of a webpage. It generally contains copyright information, links to social media and navigation items.

Sir
Tim Berners-Lee
OM KBE FRS FREng FRSA FBCS



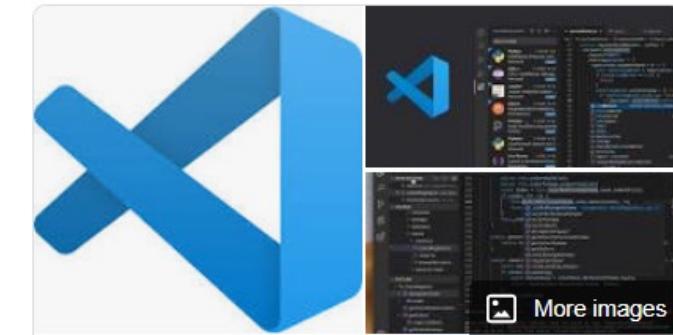
Berners-Lee in 2014

Born	Timothy John Berners-Lee 8 June 1955 (age 66) London, England
Other names	TimBL TBL
Education	The Queen's College, Oxford (BA)
Awards	Turing Award (2016) Queen Elizabeth Prize (2013) Foreign Associate of the National Academy of Sciences (2009) Order of Merit (2007) ACM Software System Award (1995)

VISUAL STUDIO CODE

Visual Studio Code, also commonly referred to as VS Code,[9] is a source-code editor made by Microsoft for Windows, Linux and macOS.[10] Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git. Users can change the theme, keyboard shortcuts, preferences, and install extensions that add additional functionality.

In the Stack Overflow 2021 Developer Survey, Visual Studio Code was ranked the most popular developer environment tool, with 70% of 82,000 respondents reporting that they use it.



Visual Studio Code



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Developer(s): Microsoft

Size: Windows: 40.8–68.3 MB; Linux: 46.5–66.6 MB; macOS: 67.5 MB

Repository: github.com/microsoft/vscode

Stable release: 1.66.1 / 7 April 2022

Preview release: 1.55.0-insider

Initial release: April 29, 2015; 6 years ago

Programming languages: JavaScript, HTML, Java, CSS, TypeScript

STEPS TO INSTALL VISUAL STUDIO

Google

vs code

Type here

All Images News Books Videos More Tools

About 2,08,00,00,000 results (0.61 seconds)

<https://code.visualstudio.com> ::

[Visual Studio Code - Code Editing, Redefined](#)

Visual Studio Code is a code editor redefined and optimized for building and debugging modern web and cloud applications. Visual Studio Code is free and ...

Download

Visual Studio Code is free and available on your favorite ...

Docs

GCC on Windows - Introductory Videos - Overview - Windows

Python

Extension for Visual Studio Code - IntelliSense (Pylance), ...

C/C++

Extension for Visual Studio Code - C/C++ IntelliSense, debugging ...

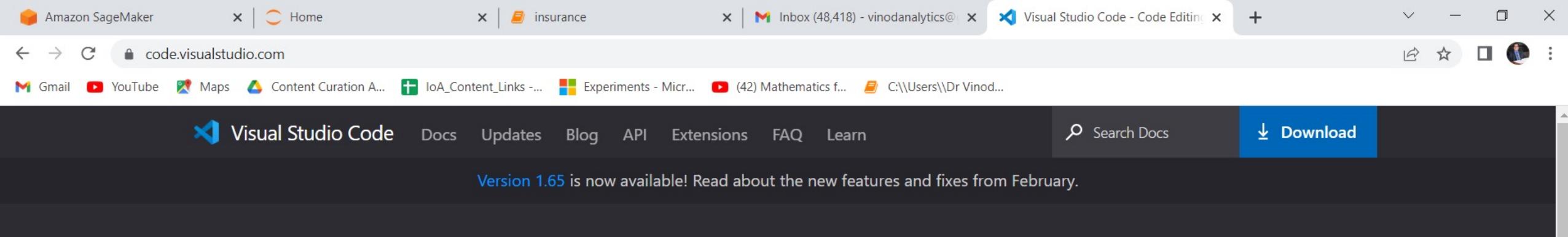
[More results from visualstudio.com »](#)

People also ask ::

Is VS Code an IDE?

<https://code.visualstudio.com>

The screenshot shows a Google search results page for the query "vs code". The search bar has "vs code" typed into it, with a red circle highlighting the text and a blue callout bubble saying "Type here". Below the search bar are standard Google search filters: All, Images, News, Books, Videos, and More. The main search result is a link to the Visual Studio Code website, titled "Visual Studio Code - Code Editing, Redefined". The snippet below the title describes Visual Studio Code as a code editor redefined and optimized for building and debugging modern web and cloud applications, noting it is free. To the right of the search result is a large image of the Visual Studio Code logo (a blue 'X' shape) and a screenshot of the IDE interface. Below the image is a "More images" link. Further down the page, there are sections for "Download", "Docs", "Python", "C/C++", and a "People also ask" section with a question about whether VS Code is an IDE. At the bottom of the page, there is a navigation bar with various icons and a status bar showing the date and time.



Version 1.65 is now available! Read about the new features and fixes from February.

Code editing. Redefined.

Free. Built on open source. Runs everywhere.

Download for Windows
Stable Build

Other platforms and Insiders Edition

By using VS Code, you agree to its
license and privacy statement.

Click here

A yellow arrow points to the "Download for Windows" button, which is highlighted with a yellow box. A yellow box also surrounds the "Click here" text. The background shows a dark theme of the Visual Studio Code interface with various extensions listed in the Marketplace and code snippets in the editor.





Docs Updates Blog API Extensions FAQ Learn

Search Docs

Download

Version 1.65 is now available! Read about the new features and fixes from February.

Overview

SETUP

GET STARTED

USER GUIDE

LANGUAGES

NODEJS /
JAVASCRIPT

TYPESCRIPT

PYTHON

JAVA

C++

CONTAINERS

DATA SCIENCE

AZURE

REMOTE

Thanks for downloading VS Code for Windows!

Download not starting? Try this [direct download link](#).Please take a few seconds and help us improve ... [click to take survey](#).

Getting Started

Visual Studio Code is a lightweight but powerful source code editor which runs on your desktop and is available for Windows, macOS and Linux. It comes with built-in support for JavaScript, TypeScript and Node.js and has a rich ecosystem of extensions for other languages (such as C++, C#, Java, Python, PHP, Go) and runtimes (such as .NET and Unity). Begin your journey with VS Code with these [introductory videos](#).

Visual Studio Code in Action

```
4 var server = express();
5 server.use(bodyParser.json());
6
7 server.g
```

Click here



VSCodeUserSetup...exe

GETTING STARTED

VS Code in Action

Top Extensions

First Steps

Keyboard Shortcuts

Downloads

Privacy

[Tweet this link](#)[Subscribe](#)[Ask questions](#)[Follow @code](#)[Request features](#)[Report issues](#)[Watch videos](#)

Show all

11



Type here to search

15:24
28-03-2022
ENG
1

Setup - Microsoft Visual Studio Code (User)

— □ ×

**License Agreement**

Please read the following important information before continuing.

Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.

This license applies to the Visual Studio Code product. Source Code for Visual Studio Code is available at <https://github.com/Microsoft/vscode> under the MIT license agreement at <https://github.com/microsoft/vscode/blob/main/LICENSE.txt>. Additional license information can be found in our FAQ at <https://code.visualstudio.com/docs/supporting/faq>.

MICROSOFT SOFTWARE LICENSE TERMS**MICROSOFT VISUAL STUDIO CODE**

I accept the agreement

I do not accept the agreement

1 Check this

2 Move on

Next >

Cancel

Setup - Microsoft Visual Studio Code (User)

**Select Destination Location**

Where should Visual Studio Code be installed?



Setup will install Visual Studio Code into the following folder.

To continue, click Next. If you would like to select a different folder, click Browse.

At least 287.8 MB of free disk space is required.

< Back

Next >

Cancel

Move on



Setup - Microsoft Visual Studio Code (User)

**Select Start Menu Folder**

Where should Setup place the program's shortcuts?



Setup will create the program's shortcuts in the following Start Menu folder.

To continue, click Next. If you would like to select a different folder, click Browse.

Browse...

Move on

Don't create a Start Menu folder

< Back

Next >

Cancel

Select Additional Tasks

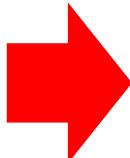
Which additional tasks should be performed?

Select the additional tasks you would like Setup to perform while installing Visual Studio Code, then click Next.

Additional icons:

- Create a desktop icon

1 Check this



Other:

- Add "Open with Code" action to Windows Explorer file context menu
- Add "Open with Code" action to Windows Explorer directory context menu
- Register Code as an editor for supported file types
- Add to PATH (requires shell restart)

2 Move on

< Back

Next >

Cancel

Setup - Microsoft Visual Studio Code (User)



Ready to Install

Setup is now ready to begin installing Visual Studio Code on your computer.



Click **Install** to continue with the installation, or click **Back** if you want to review or change any settings.

Destination location:

C:\Users\Dr Vinod\AppData\Local\Programs\Microsoft VS Code

Start Menu folder:

Visual Studio Code

Additional tasks:

Additional icons:

Create a desktop icon

Other:

Register Code as an editor for supported file types

Add to PATH (requires shell restart)



Go ahead!



< Back

Install

Cancel

Gmail YouTube Maps Content Curation A... IoA_Content_Links -... Experiments - Micr... (42) Mathematics f... C:\Users\Dr Vinod...

Visual Studio Code Docs Updates Blog API Extensions FAQ Learn Search Docs Download

Version 1.65 is now available! Read about the new features and fixes from February.

Setup - Microsoft Visual Studio Code (User)

Installing

Please wait while Setup installs Visual Studio Code on your computer.

Extracting files...

C:\Users\Dr Vinod\AppData\Local\Programs\Microsoft VS Code\Code.exe



Cancel

Overview

SETUP

GET STARTED

USER GUIDE

LANGUAGES

NODE.JS /
JAVASCRIPT

TYPESCRIPT

PYTHON

JAVA

C++

CONTAINERS

DATA SCIENCE

AZURE

REMOTE

Getting Started

Visual Studio Code is available for Windows, macOS, Linux, Node.js and has Go and runtime support for Python, PHP, Ruby, and many more.

Visual Studio Code

```
4 var server = express();
5 server.use(bodyParser.json());
6
7 server.get((req, res) => {
8   res.send("Hello World!");
9 })
10
```

GETTING STARTED

VS Code in Action

Top Extensions

First Steps

Keyboard Shortcuts

Downloads

Privacy

Tweet this link

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Ask questions

Follow @code

Request features

Report issues

Watch videos

Setup - Microsoft Visual Studio Code (User)



Completing the Visual Studio Code Setup Wizard

Setup has finished installing Visual Studio Code on your computer. The application may be launched by selecting the installed shortcuts.

Click Finish to exit Setup.

Launch Visual Studio Code



Finish

File Edit Selection View Go Run Terminal Help Get Started - Visual Studio Code

Get Started X

< Get Started

Get Started with VS Code

Discover the best customizations to make VS Code yours.

Choose the look you want

The right color palette helps you focus on your code, is easy on your eyes, and is simply more fun to use.

[Browse Color Themes](#)

Tip: Use keyboard shortcut (**Ctrl+K Ctrl+T**)

Sync to and from other devices

One shortcut to access everything

Rich support for all your languages

Open up your code

Light

Dark

High Contrast

See More Themes...

You will land up here!

Mark Done

Next Section →

Code collects usage data. Read our [privacy statement](#) and learn how to [opt out](#).

0 △ 0

Comments

19 19



Get Started X

< Get Started

⚡ Get Started with VS Code

Discover the best customizations to make VS Code yours.

Choose the look you want

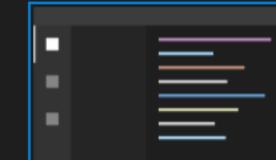
The right color palette helps you focus on your code, is easy on your eyes, and is simply more fun to use.

[Browse Color Themes](#)

Tip: Use keyboard shortcut (**Ctrl+K Ctrl+T**)



Light



Dark



High Contrast

[See More Themes...](#)

Sync to and from other devices

One shortcut to access everything

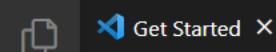
Rich support for all your languages

Open up your code

[Mark Done](#)[Next Section →](#)

Click here

Code collects usage data. Read our [privacy statement](#) and learn how to [opt out](#).



< Get Started

Learn the Fundamentals

Jump right into VS Code and get an overview of the must-have features.

Redefine your editing skills

Want to code faster and smarter? Practice powerful code editing features in the interactive playground.

[Open Editor Playground](#)

Convenient built-in terminal

Limitless extensibility

Tune your settings

Lean back and learn

[Mark Done](#)[Next Section →](#)

Click here

Interactive Playground

```
#p1 {background-color: #ff0000;} /* I'm on 3 lines!|
#p2 {background-color: hsl(120, 100%, 50%); /* I'm on 3 lines!|
#p3 {background-color: rgba(0, 4, 255, 0.733);} /* I'm on 3 lines!|
```



⊗ 0 △ 0

Code collects usage data. Read our [privacy statement](#) and learn how to [opt out](#).

21



Type here to search

15:32
28-03-2022
ENG



Get Started X

< Get Started

Click here



Boost your Productivity

Optimize your development workflow with these tips & tricks.

 Side by side editing

Make the most of your screen estate by opening files side by side, vertically and horizontally.

Split Editor

Tip: Use keyboard shortcut (**Ctrl+V**) Install Git Customize your shortcuts

Mark Done

ts App.tsx X

```
export const App = () => {
  return (
    <div>
      <h1>My app</h1>
    </div>
  );
}
```

App.css X

```
.App {
  text-align: center;
}
```

Code collects usage data. Read our [privacy statement](#) and learn how to [opt out](#).

Get Started X

...

Visual Studio Code

Editing evolved



Click this

Start

- New File...
- Open File...
- Open Folder...

Recent

You have no recent folders, [open a folder](#) to start.

Walkthroughs

Get Started with VS Code

Discover the best customizations to make VS Code yours.

Learn the Fundamentals

Jump right into VS Code and get an overview of the must-have features.

Boost your Productivity

Show welcome page on startup



⊗ 0 △ 0

23



Type here to search



15:37

28-03-2022



EXTENSIONS

Search Extensions in Marketplace

INSTALLED

POPULAR

- Python** 53.2M ★ 4
IntelliSense (Pylance), Lintin...
Microsoft [Install](#)
- Jupyter** 33.7M ★ 2.5
Extensions (Ctrl+Shift+X) book support, i...
Microsoft [Install](#)
- C/C++** 29.5M ★ 3.5
C/C++ IntelliSense, debuggi...
Microsoft [Install](#)
- Pylance** 26.6M ★ 3.5
A performant, feature-rich la...
Microsoft [Install](#)
- Live Server** 20M ★ 4.5
Launch a development local...
Ritwick Dey [Install](#)
- Prettier - Co...** 19.7M ★ 3.5
Code formatter using prettier
Prettier [Install](#)
- ESLint** 19.2M ★ 4.5
Integrates ESLint JavaScript i...
Microsoft [Install](#)
- Visual Studio ...** 17.7M ★ 4
AI-assisted development
Microsoft [Install](#)

RECOMMENDED

- vscode-data...** 611K ★ 3.5
Support mysql, postgres, SS...
Bajdzis [Install](#)
- SQLTools** 1.5M ★ 3.5
Database management don...
Matheus Teixeira [Install](#)

Visual Studio Code

Editing evolved

Start

- [New File...](#)
- [Open File...](#)
- [Open Folder...](#)

Recent

You have no recent folders, [open a folder](#) to start.

Click here

Walkthroughs

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EXTENSIONS

Search Extensions in Marketplace

INSTALLED

Python v53.2M ★ 4
IntelliSense (Pylance), Lintin... Microsoft Install

Jupyter v33.7M ★ 2.5
Jupyter notebook support, i... Microsoft Install

C/C++ v29.5M ★ 3.5
C/C++ IntelliSense, debuggi... Microsoft Install

Pylance v26.6M ★ 3.5
A performant, feature-rich la... Microsoft Install

Live Server v20M ★ 4.5
Launch a development local... Ritwick Dey Install

Prettier - Co... v19.7M ★ 3.5
Code formatter using prettier Prettier Install

ESLint v19.2M ★ 4.5
Integrates ESLint JavaScript i... Microsoft Install

Visual Studio ... v17.7M ★ 4
AI-assisted development Microsoft Install

RECOMMENDED

vscode-data... v611K ★ 3.5
Support mysql, postgres, SS... Bajdzis Install

SQLTools v1.5M ★ 3.5
Database management don... Matheus Teixeira Install

Get Started Extension: Python X

Python

v2022.2.1924087327

Microsoft | 53,255,779 | ★★★★☆(468)

IntelliSense (Pylance), Linting, Debugging (multi-threaded, remote), Jupyter Notebooks, code formatting, refactoring, unit tests, ...

Install **Install** **Settings**

Details **Feature Contributions** **Changelog** **Extension Pack**

Python extension for Visual Studio Code

A Visual Studio Code extension with rich support for the [Python language](#) (for all [actively supported versions](#) of the language: >=3.7), including features such as IntelliSense (Pylance), linting, debugging, code navigation, code formatting, refactoring, variable explorer, test explorer, and more!

Web support

The Python extension offers [limited support](#) when running on the web (for example, on [github.dev](#)), by providing partial IntelliSense for open files in the editor.

Installed extensions

The Python extension will automatically install the [Pylance](#) and [Jupyter](#) extensions to give you the best experience when working with Python files and Jupyter notebooks. However, Pylance is an optional dependency, meaning the Python extension will remain fully functional if it fails to be installed. You can also [uninstall](#) it at the expense of some features if you're using a different language server.

Extensions installed through the marketplace are subject to the [Marketplace Terms of Use](#).

Quick start

- Step 1. [Install a supported version of Python on your system](#) (note: that the system install of Python on my machine is not supported).
- Step 2. [Install the Python extension for Visual Studio Code](#).

Categories

Programming Languages Linters

Debuggers Formatters

Data Science Machine Learning

Notebooks

Resources

Marketplace Repository License microsoft.com

Marketplace Info

Released on 1/19/2016, 20:33:11

Last updated 3/25/2022, 15:38:54

Identifier ms-python.python



EXTENSIONS



Get Started

Extension: Python



Python

v2022.2.1924087327

Microsoft

53,255,779

★★★★★(468)

IntelliSense (Pylance), Linting, Debugging (multi-threaded, remote), Jupyter Notebooks, code formatting, refactoring, unit tests, ...

Disable

Uninstall

Switch to Pre-Release Version



This extension is enabled globally.

Installed!

[Details](#) [Feature Contributions](#) [Changelog](#) [Extension Pack](#) [Runtime Status](#)

Python extension for Visual Studio Code

A [Visual Studio Code extension](#) with rich support for the [Python language](#) (for all [actively supported versions](#) of the language: >=3.7), including features such as IntelliSense (Pylance), linting, debugging, code navigation, code formatting, refactoring, variable explorer, test explorer, and more!

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Quick start

- **Step 1.** [Install a supported version of Python on your system](#) (note: that the system install of Python on your machine may not be supported).

Source: Python (Extension)

Select Python Interpreter

✖ No Python interpreter is selected. You need to select a Python interpreter to enable features such as IntelliSense, linting, and debugging.

0 0 0



EXTENSIONS

Search Extensions in Marketplace

INSTALLED

- Python 738ms
IntelliSense (Pylance), Lintin...
Microsoft
- Pylance 980ms
A performant, feature-rich la...
Microsoft

POPULAR

- Python 738ms
IntelliSense (Pylance), Lintin...
Microsoft
- Jupyter 516ms
Jupyter notebook support, i...
Microsoft
- C/C++ 29.5M ★ 3.5
C/C++ IntelliSense, debuggi...
Microsoft
- Pylance 980ms
A performant, feature-rich la...
Microsoft
- Live Server 20M ★ 4.5
Launch a development local...
Ritwick Dey
- Prettier - Co... 19.7M ★ 3.5
Code formatter using prettier
Prettier
- ESLint 19.2M ★ 4.5

RECOMMENDED

- vscode-data... 611K ★ 3.5
Support mysql, postgres, SS...
Bajdzis
- SQLTools 1.5M ★ 3.5
Database management don...
Matheus Teixeira

Live Server v5.7.5

Ritwick Dey | 20,052,825 | ★★★★★(365)

Launch a development local Server with live reload feature for static & dynamic pages

Install

2 Click here

Details Feature Contributions Changelog

[Wanna try LIVE SERVER++ (BETA) ? It'll enable live changes without saving file. <https://github.com/ritwickdey/vscode-live-server-plus-plus>]

Live Server

Live Server loves ❤️ your multi-root workspace

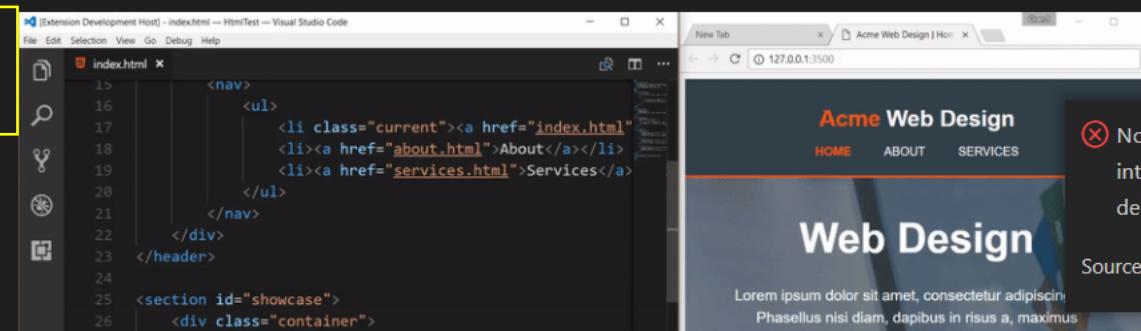
Live Server for server side pages like PHP. [Check Here](#)

[For 'command not found error' #78]

vscode marketplace v5.7.5 downloads 35M rating 4.4/5 (365)

travis branch passing appveyor branch passing license MIT

Launch a local development server with live reload feature for static & dynamic pages.



Categories

Other

Resources

Marketplace

Repository

License

Marketplace Info

Released on 6/28/2017, 02:44:04

Last updated 3/8/2022, 16:50:23

Identifier ritwickdey.liveserver

Select Python Interpreter

EXTENSIONS

Get Started

Extension: Live Server

Search Extensions in Marketplace

INSTALLED

- Python 738ms
IntelliSense (Pylance), Lintin...
Microsoft
- Pylance 980ms
A performant, feature-rich la...
Microsoft

POPULAR

- Python 738ms
IntelliSense (Pylance), Lintin...
Microsoft
- Jupyter 516ms
Jupyter notebook support, i...
Microsoft
- C/C++ 29.5M ★ 3.5
C/C++ IntelliSense, debuggi...
Microsoft
- Pylance 980ms
A performant, feature-rich la...
Microsoft
- Live Server 2754ms
Launch a development local...
Ritwick Dey
- Prettier - Co... 19.7M ★ 3.5
Code formatter using prettier
Prettier
- ESLint 19.2M ★ 4.5

RECOMMENDED

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Live Server v5.7.5

Ritwick Dey | 20,052,825 | ★★★★★(365)

Launch a development local Server with live reload feature for static & dynamic pages

Disable Uninstall ⚙

Details Feature Contributions Changelog Runtime Status

[Wanna try [LIVE SERVER++ \(BETA\)](#)? It'll enable live changes without saving file. <https://github.com/ritwickdey/live-server-plus-plus>]

Live Server

Live Server loves ❤️ your multi-root workspace

Live Server for server side pages like PHP. [Check Here](#)

[For 'command not found error' #78]

vscode marketplace v5.7.5 downloads 35M rating 4.4/5 (365)
travis branch passing appveyor branch passing license MIT

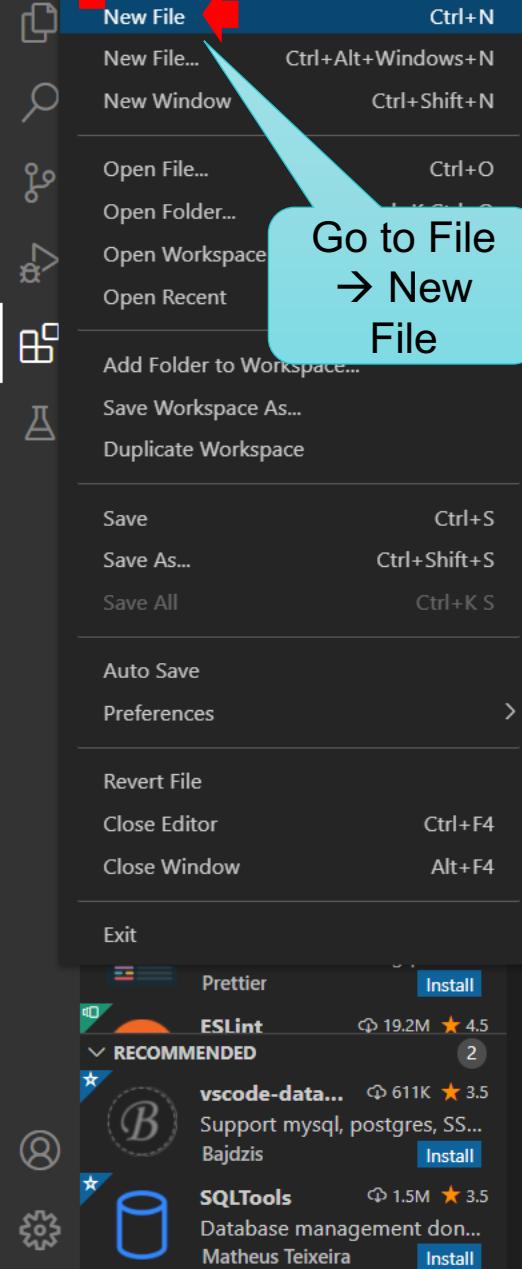
Launch a local development server with live reload feature for static & dynamic pages.

No Python interpreter is selected. You need to select a Python interpreter to enable features such as IntelliSense, linting, and debugging.

Source: Python (Extension) Select Python Interpreter

Go Live

WRITING HTML SCRIPT



Live Server v5.7.5

Ritwick Dey | ⚡ 20,052,825 | ★★★★★(365)

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Live Server

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Live Server for server side pages like PHP. [Check Here](#)

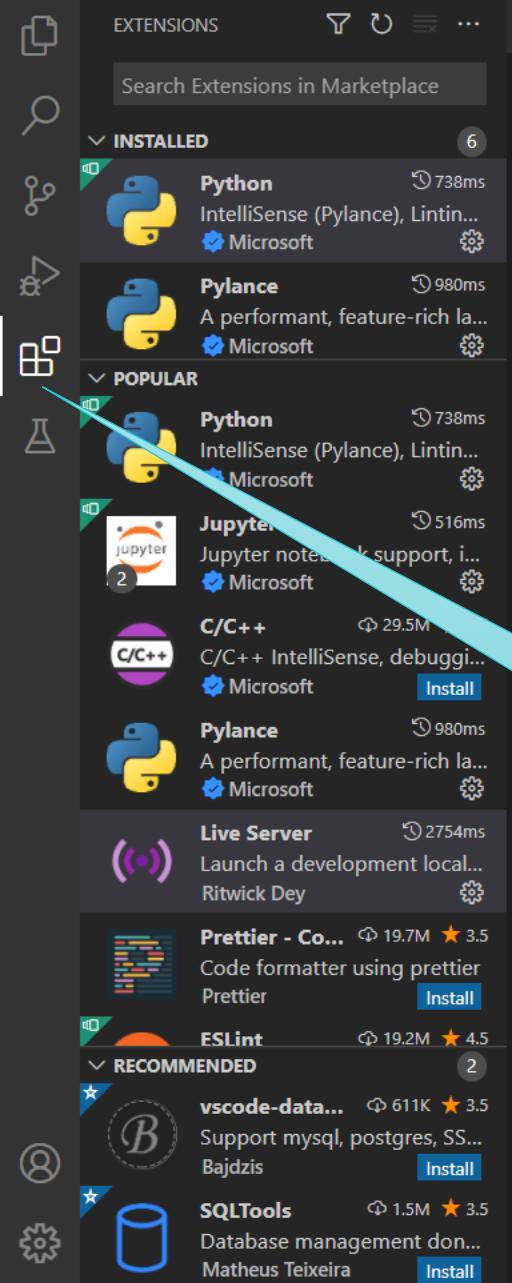
[For 'command not found error' #78]

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Launch a local development server with live reload feature for static & dynamic pages.





Start html
scripting

Click thisall icons
within 'extensions'
will hide

Click here

ⓘ No Python interpreter is selected. You need to select a Python interpreter to enable features such as IntelliSense, linting, and debugging.

Source: Python (Extension)

Select Python Interpreter



Get Started Untitled-1 X

1 | *Select a language to get started. Start typing to dismiss, or don't show this again.*

We will write
script here!



```
1 <!doctype html>
2 <html>
3 <style>
4 form {
5     margin: auto;
6     width: 35%;
7 }
8
9 .result {
10    margin: auto;
11    width: 35%;
12    border: 1px solid #ccc;
13 }
14 </style>
15
16 <head>
17 |   <h1 style="font-size:200%;color:red;">Insurance Charges Claim</h1>
18 </head>
19
20
21 </html>
22
23
```

After typing this,
SAVE IT.....then we
will see the outcome
through LIVE
SERVER



⊗ 0 △ 0



Type here to search



Ln 23, Col 1

Spaces: 4 UTF-8 CRLF HTML ⚙ Go Live ⚙ ENG 18:05

28-03-2022





Get Started < main_1.html < main.html

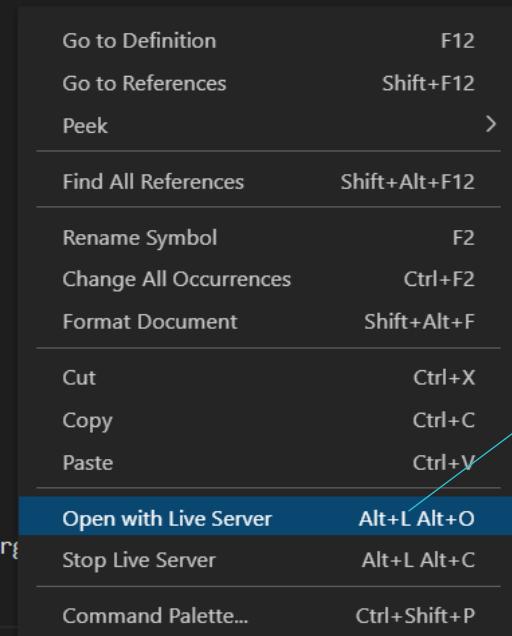
```
ins > templates > < main_1.html > ...
1  <!doctype html>
2  <html>
3  <style>
4  form {
5      margin: auto;
6      width: 35%;
7  }
8
9  .result {
10     margin: auto;
11     width: 35%;
12     border: 1px solid #ccc;
13 }
14 </style>
15
16 <head>
17 |   <h1 style="font-size:20%;color:red;">Insurance Charges Claim</p></h1>
18 </head>
19
20
21 </html>
22
23 |
```

Saved as
main_1



Get Started < main_1.html < main.html

```
ins > templates > < main_1.html > html
1  <!doctype html>
2  <html>
3  <style>
4  form {
5      margin: auto;
6      width: 35%;
7  }
8
9 .result {
10    margin: auto;
11    width: 35%;
12    border: 1px solid #ccc;
13 }
14 </style>
15
16 <head>
17   <h1 style="font-size:200%;color: red;">Insurance Charge</h1>
18 </head>
19
20
21 </html>
22
23
```



Do right click and then click this, You will be able to see the output at Live Server !

Insurance Charges Claim

Wow! whatever
we created
previously, is
shown here!!

Get Started main_1.html app.py 2 main.html ●
ins > templates > main.html > html > form > fieldset

```
11     width: 35%;  
12     border: 1px solid #ccc;  
13 }  
14 </style>  
15  
16 <head>  
17   <h1 style="font-size:20%;color:red;">Insurance Charges Claim</h1>  
18 </head>  
19 <form action="{{ url_for('main') }}" method="POST">  
20   <fieldset>  
21     <legend>Input values:</legend>  
22     Age:<span style="color:red"> * </span>  
23     <input name="age" type="number" required>  
24     <br>  
25     BMI:<span style="color:red"> * </span>  
26     <input name="bmi" type="number" required>  
27     <br>  
28     Children:<span style="color:red"> * </span>  
29     <input name="children" type="number" required>  
30     <br>  
31     <br>  
32     <input type="submit">  
33   </fieldset>  
34 </form>  
35  
36 </html>
```

1
Complete
the script

Go to Definition F12
Go to References Shift+F12
Peek >
Find All References Shift+Alt+F12
Rename Symbol F2
Change All Occurrences Ctrl+F2
Format Document Shift+Alt+F
Cut Ctrl+X
Copy Ctrl+C
Paste Ctrl+V
Open with Live Server Alt+L Alt+O
Stop Live Server Alt+L Alt+C
Command Palette... Ctrl+Shift+P

2 Do right click
and then click
this



Type here to search



Insurance Charges Claim

Input values:

Age: *

BMI: *

Children: *



Get Started main_1.html app.py 2 main.html

ins > templates > main.html > ...

```
21 |     <legend>Input values:</legend>
22 |     Age:<span style="color: red"> * </span>
23 |     <input name="age" type="number" required>
24 |     <br>
25 |     <br>BMI:<span style="color: red"> * </span>
26 |     <input name="bmi" type="number" required>
27 |     <br>
28 |     <br>Children:<span style="color: red"> * </span>
29 |     <input name="children" type="number" required>
30 |     <br>
31 |     <br>
32 |     <input type="submit">
33 |   </fieldset>
34 | </form>
35 | <br>
36 | <br>
37 | <div class="result" align="center">
38 |     {% if result %}
39 |         {% for variable, value in original_input.items()%}
40 |             <b>{{ variable }}</b> : {{ value }}
41 |         {% endfor %}
42 |         <br>
43 |         <br> <p style="font-size:150%;color: red;">Predicted Charges Claim:</p>
44 |         <p style="font-size:50px">{{ result }}</p>
45 |     {% endif %}
46 | </div>
47 |
48 | </html>
49 |
50 |
51 |
52 |
```



Complete
the script

Get Started main_1.html app.py 2 main.html ●

ins > templates > main.html > html > br

```
21 |     <legend>Input values:</legend>
22 |     Age:<span style="color: red"> * </span>
23 |     <input name="age" type="number" required>
24 |     <br>
25 |     <br>BMI:<span style="color: red"> * </span>
26 |     <input name="bmi" type="number" required>
27 |     <br>
28 |     <br>Children:<span style="color: red"> * </span>
29 |     <input name="children" type="number" required>
30 |     <br>
31 |     <br>
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44 |         <p style="font-size:50px">{{ result }}</p>
45 |     {% endif %}
46 | </div>
47 |
48 | </html>
```

Right Click and then click this

- Go to Definition F12
- Go to References Shift+F12
- Peek >
- Find All References Shift+Alt+F12
- Rename Symbol F2
- Change All Occurrences Ctrl+F2
- Format Document Shift+Alt+F
- Cut Ctrl+X
- Copy Ctrl+C
- Paste Ctrl+V
- Open with Live Server Alt+L Alt+O
- Stop Live Server Alt+L Alt+C
- Command Palette... Ctrl+Shift+P

Insurance Charges Claim

Input values:

Age: *

BMI: *

Children: *

```
{% if result %} {% for variable, value in original_input.items()%} {{ variable }} :  
{{ value }} {% endfor %}
```

Predicted Charges Claim:

{} result {}

```
{% endif %}
```

Amazing!

WEB APPLICATION THROUGH FLASK

WHAT IS FLASK?

Our website is ready, now we will make a web application through Flask!

Flask is a web framework. This means flask provides you with tools, libraries and technologies that allow you to build a web application. This web application can be some web pages, a blog, a wiki or go as big as a web-based calendar application or a commercial website.



Amazon SageMaker Home insurance Inbox (48,418) - vinodanalytics@ (38) WhatsApp

try-bnfp.notebook.us-west-2.sagemaker.aws/notebooks/insurance.ipynb

Gmail YouTube Maps Content Curation A... IoA_Content_Links -... Experiments - Micr... (42) Mathematics f... C:\Users\Dr Vinod...

jupyter insurance Last Checkpoint: 5 hours ago (autosaved)

File Edit View Insert Cell Kernel Widgets Help

New Notebook Open...

Make a Copy...

Save as...

Rename...

Save and Checkpoint

Revert to Checkpoint

Print Preview

Download as

Trust Notebook

Close and Halt

conda_python3

nbdiff

Be at 'insurance'
Go to → New Notebook
→ conda_python3

```
from
from
from
from
from
from
import
df = P
df = P
pairwise_tukeyhsd
in_test_split
ce
import variance_inflation_factor
ardScaler
ressor
d_error
```

https://try-bnfp.notebook.us-west-2.sagemaker.aws/notebooks/insurance.ipynb# p27

Type here to search



Open JupyterLab

Quit

Logout

Files Running Clusters Conda SageMaker Examples

Select items to perform actions on them.

Upload New

	Name	Last Modified	File size
<input type="checkbox"/> 0	/		
<input type="checkbox"/> insurance.ipynb	Running	5 hours ago	5.32 kB
<input type="checkbox"/> Untitled.ipynb	Running	2 minutes ago	2.95 kB
<input type="checkbox"/> insurance.csv		7 hours ago	62.3 kB
<input type="checkbox"/> InsuranceModel.pkl		6 hours ago	412 kB

This pickle file is in sagemaker...to be downloaded in our folder 'ins→model'

try-bnfp.notebook.us-west-2.sagemaker.aws/tree

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jupyter

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Files Running Clusters Conda SageMaker Examples

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Upload New Edit

Download selected

Name Last Modified File size

Name	Last Modified	File size
insurance.ipynb	Running 5 hours ago	5.32 kB
Untitled.ipynb	Running 3 minutes ago	2.95 kB
insurance.csv	7 hours ago	62.3 kB
<input checked="" type="checkbox"/> InsuranceModel.pkl	6 hours ago	412 kB

1. Select
2. Download

Type here to search

19:39 28-03-2022 ENG

A screenshot of a Microsoft Edge browser window showing a Jupyter Notebook titled "app.ipynb". The tab bar at the top has a red box around the "app" tab. The notebook interface shows a code cell with Python code for creating a Flask application. A large teal starburst graphic on the right side of the screen contains the text "Type this but, Not to be executed!". Above the starburst, another teal box contains the text "Save file as 'app'".

The code in the cell is as follows:

```
In [ ]: import flask  
import pickle  
import pandas as pd  
  
# Use pickle to load in the pre-trained model  
with open(f'model/InsuranceModel.pkl', 'rb') as f:  
    model = pickle.load(f)  
  
# Initialise the Flask app  
app = flask.Flask(__name__, template_folder='templates')  
  
# Set up the main route  
@app.route('/', methods=['GET', 'POST'])  
def main():  
    if flask.request.method == 'GET':  
        # Just render the initial form, to get input  
        return(flask.render_template('main.html'))  
  
    if flask.request.method == 'POST':  
        # Extract the input  
        age = flask.request.form['age']  
        bmi = flask.request.form['bmi']  
        children = flask.request.form['children']  
  
        # Make DataFrame for model  
        input_variables = pd.DataFrame([[age, bmi, children]],  
                                       columns=['age', 'bmi', 'children'],  
                                       index=['input'])  
  
        # Get the model's prediction  
        prediction = model.predict(input_variables)[0]  
  
        # Render the form again, but add in the prediction and remind user  
        # of the values they input before  
        return flask.render_template('main.html',  
                                    original_input={'Age':age,  
                                                   'BMI':bmi,  
                                                   'Children':children},  
                                    result=prediction,  
                                    )  
  
if __name__ == '__main__':  
    app.run(host="0.0.0.0", port=8080)|
```

Gmail YouTube Maps Content Curation A... IoA_Content_Links -... Experiments - Micr... (42) Mathematics f... C:\Users\Dr Vinod...

jupyter app Last Checkpoint: Last Monday at 7:29 PM (autosaved)

Logout

File Edit View Insert Cell Kernel Widgets Help Not Trusted conda_python3 O

New Notebook Open... Make a Copy... Save as... Rename... Save and Checkpoint Revert to Checkpoint Print Preview Download as Trust Notebook Close and Halt

flask pickle pandas as pd

```
pickle to load in the pre-trained model
pen('model/InsuranceModel.pkl', 'rb') as f:
del = pickle.load(f)

ialise the Flask app
flask.Flask(__name__, template_folder='templates')

POST'])

ET':
form, to get input
ate('main.html'))

ST':
'age']
'bmi']
form['children']

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# Render the form again, but add in the prediction and remind user
# of the values they input before
return flask.render_template('main.html',
original_input={'Age':age,
'BMI':bmi,
'Children':children},
result=prediction,
)

if __name__ == '__main__':
app.run(host="0.0.0.0", port=8080)
```

download in .py format ONLY & keep in folder 'ins'

app.py

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