

TY B.Tech ECE (AI-ML)

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Class: A2

Subject: Computer Networks

PBL Activity: Personal Portfolio Website

1. Introduction

A website is a collection of several web pages that are written using HTML (HyperText Markup Language) and accessed using HTTP (Hypertext Transfer Protocol). To make a website accessible from any computer over the internet, it must be hosted on a computer connected to the internet round the clock. Such computers are known as **Web Servers**. Thus, a website consists of many digital files (called web pages) which are loaded on the web server using the HTTP protocol.

The website's web pages share a common interface and design, and are linked with hyperlinks and hypertext. A website can also contain additional documents and files like images, videos, documents, or other digital assets.

Components of a Website:

A website consists of many components, as described below:

1. **Webhost:** The host refers to the location (address) where the website is physically located. A collection of linked webpages that are hosted on a web server is referred to as the website. The webserver stores all the files, and transmits them to the user's computer when the website address is entered on the browser.
2. **Website Address:** When a user wants to open a website, they type the website address (or URL of the website) in the web browser. The requested website is transmitted through the internet and delivered on the end user's computer by the webserver.
3. **Homepage:** The Homepage of a website is the first webpage that appears when a visitor visits the website. The home page is a very important page, because it sets the look and feel of the website and directs viewers through hyperlinks to the rest of the pages on the website.
4. **Web Design:** Web design refers to the overall look and feel of the website. A good web design incorporates integration elements like navigation menus, graphics, and layout.
5. **Web Content:** The information contained on the web pages make up the content of the website. Good content on the web pages makes the website more effective and attractive.

6. **Website Navigation Structure:** The navigation structure of a website represents the hierarchical and logical order of the web pages. It is a collection of links to the different web pages, implemented through one or more navigation menus.

Method to access websites:

When the user types a URL address in the search bar of a web browser (like Google Chrome or Safari or Netscape Navigator), the browser requests the page from the Web server. The Web server returns the required web page and its contents to the browser. The information returned by the website is different for static and dynamic websites, as described below.

Personal Portfolio Website:

A Personal Portfolio website is an online resume, and has features that help the creator in getting hired. It allows them to search for jobs that match their profile and skill sets, apply instantly to these openings, and increase their visibility and marketability for prospective employers.

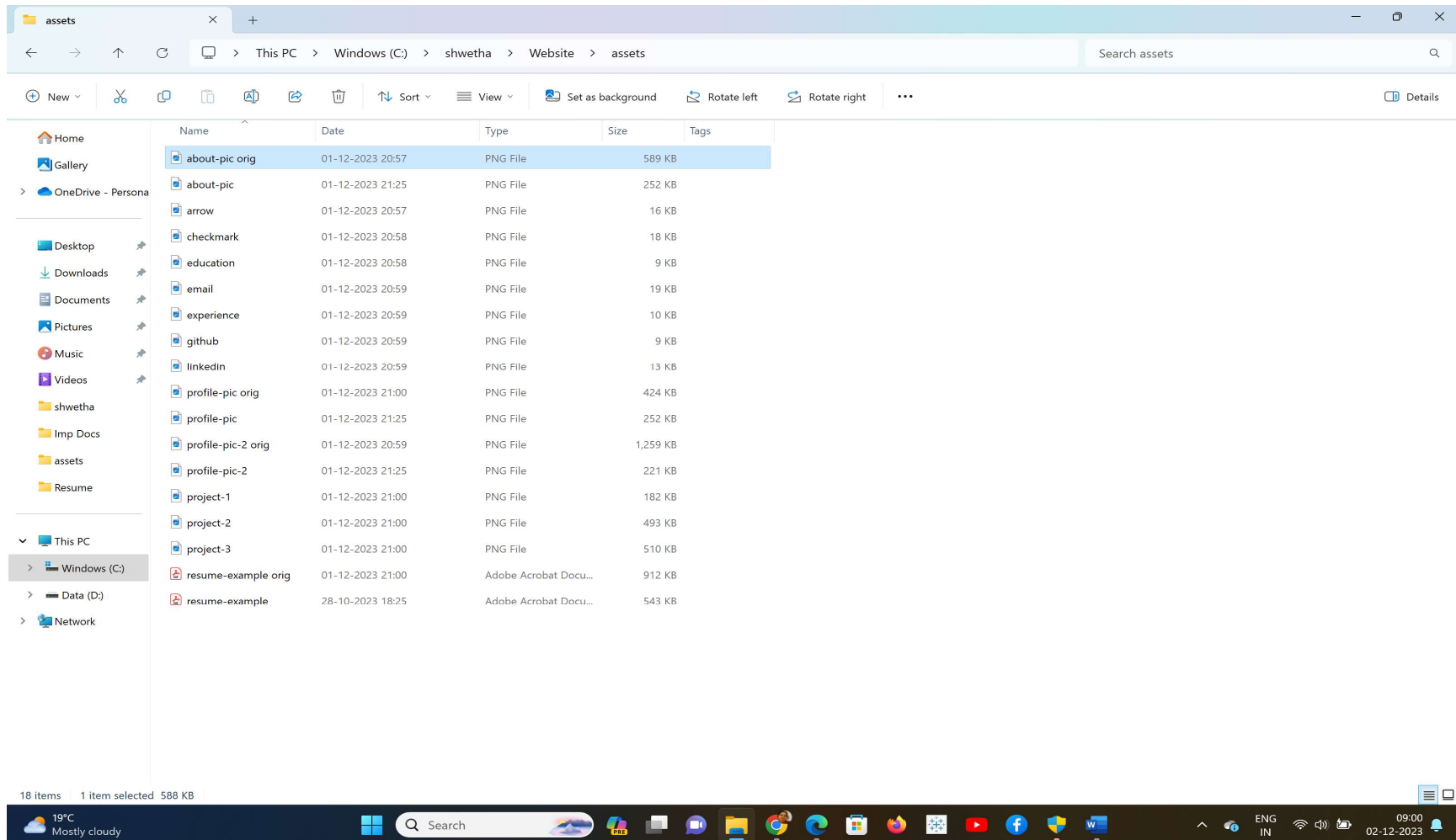
In this project, I have developed a Resume Website.

2. Tools and Techniques Used:

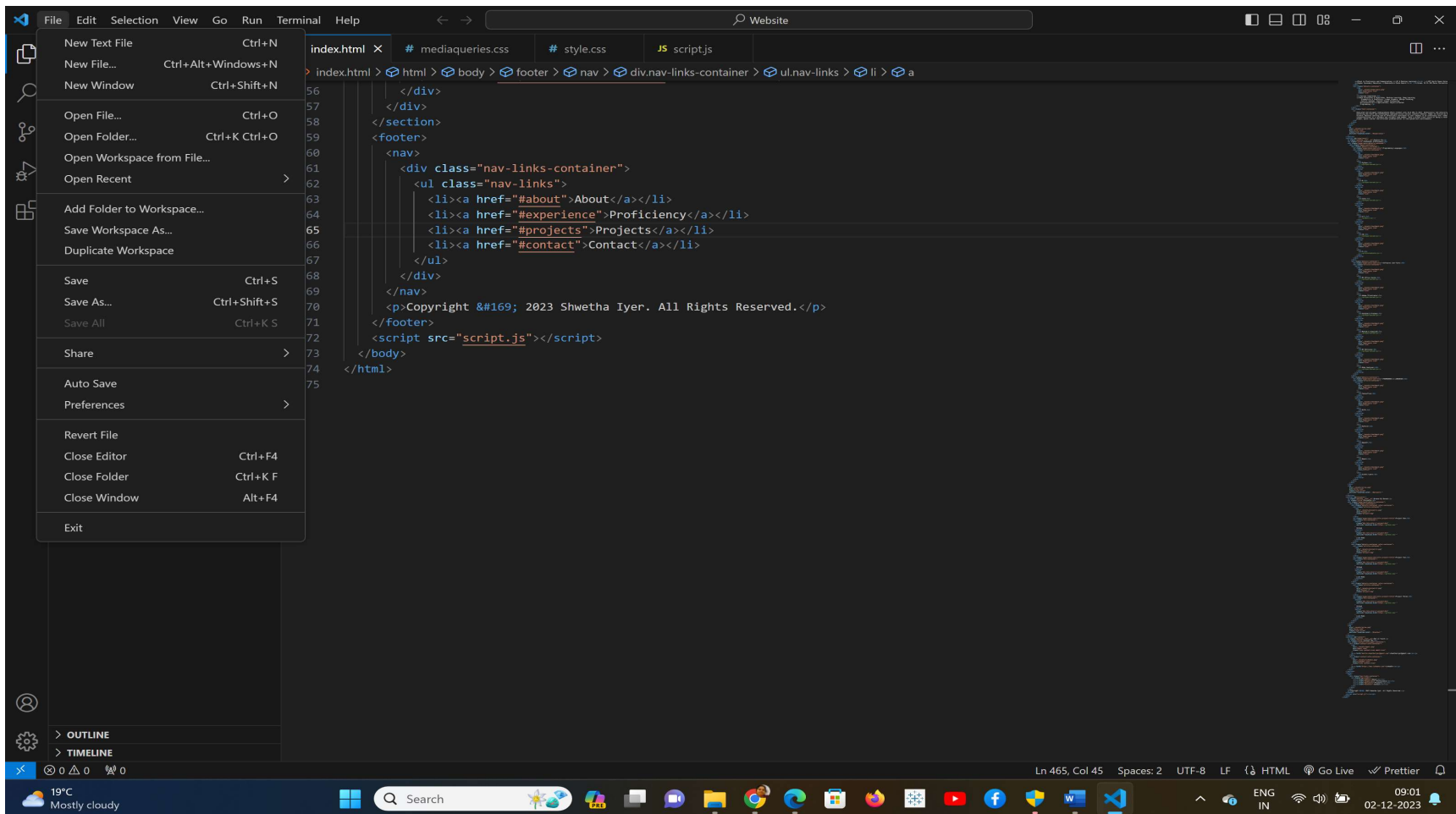
1. Coding was done using Visual Studio Code.
2. Programming languages used were HTML, CSS Stylesheets, and JavaScript scripts (for dynamic programming)
3. Additional add-ins like Live Server and Prettier- Code Formatter were installed in VS Code.

3. Implementation Details:

1. Create a folder called assets in your local drive
2. Add all images inside this folder

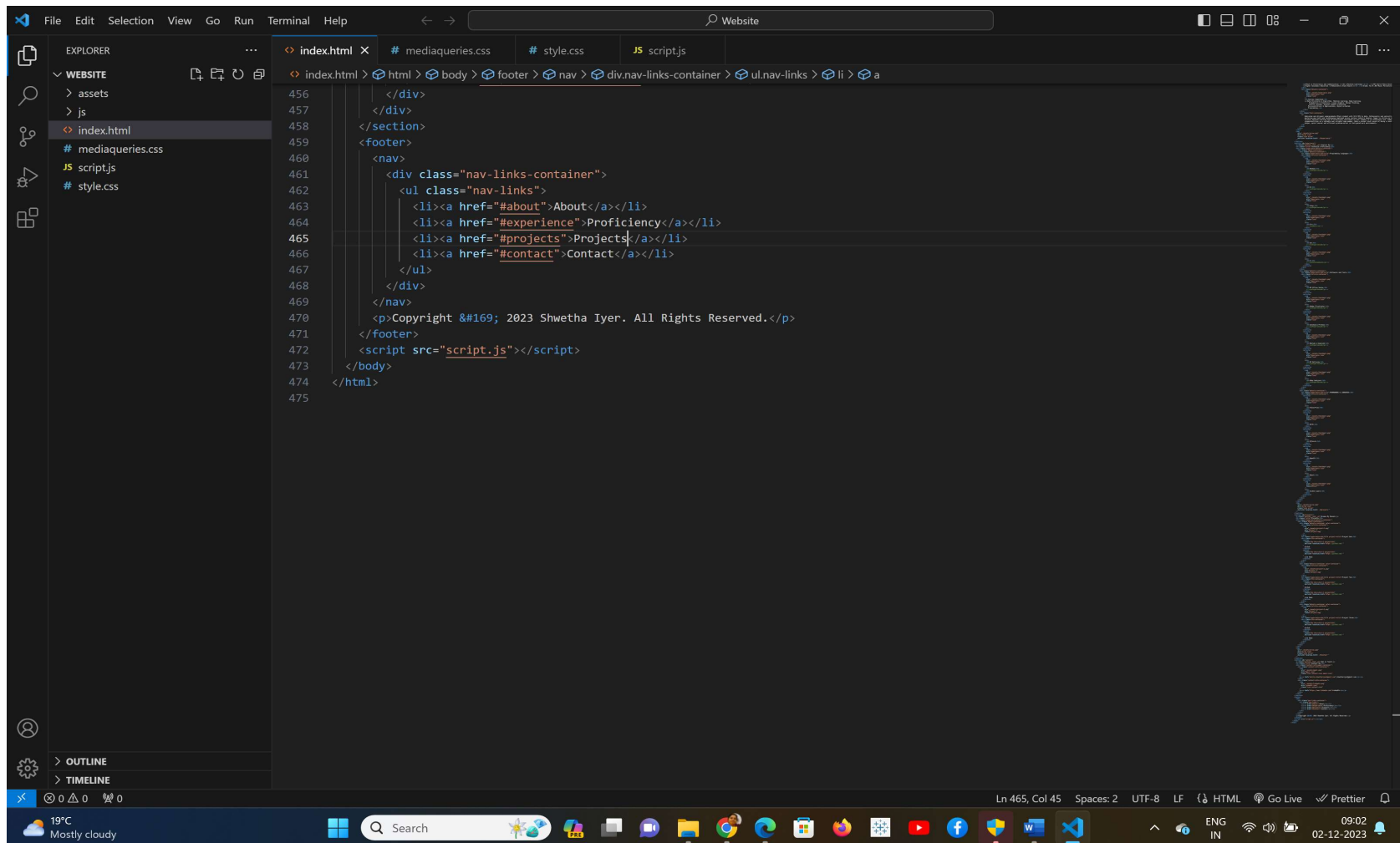


3. Install VSCode for windows from <https://code.visualstudio.com/download>
4. Open VSCode, and click Open Folder and select assets

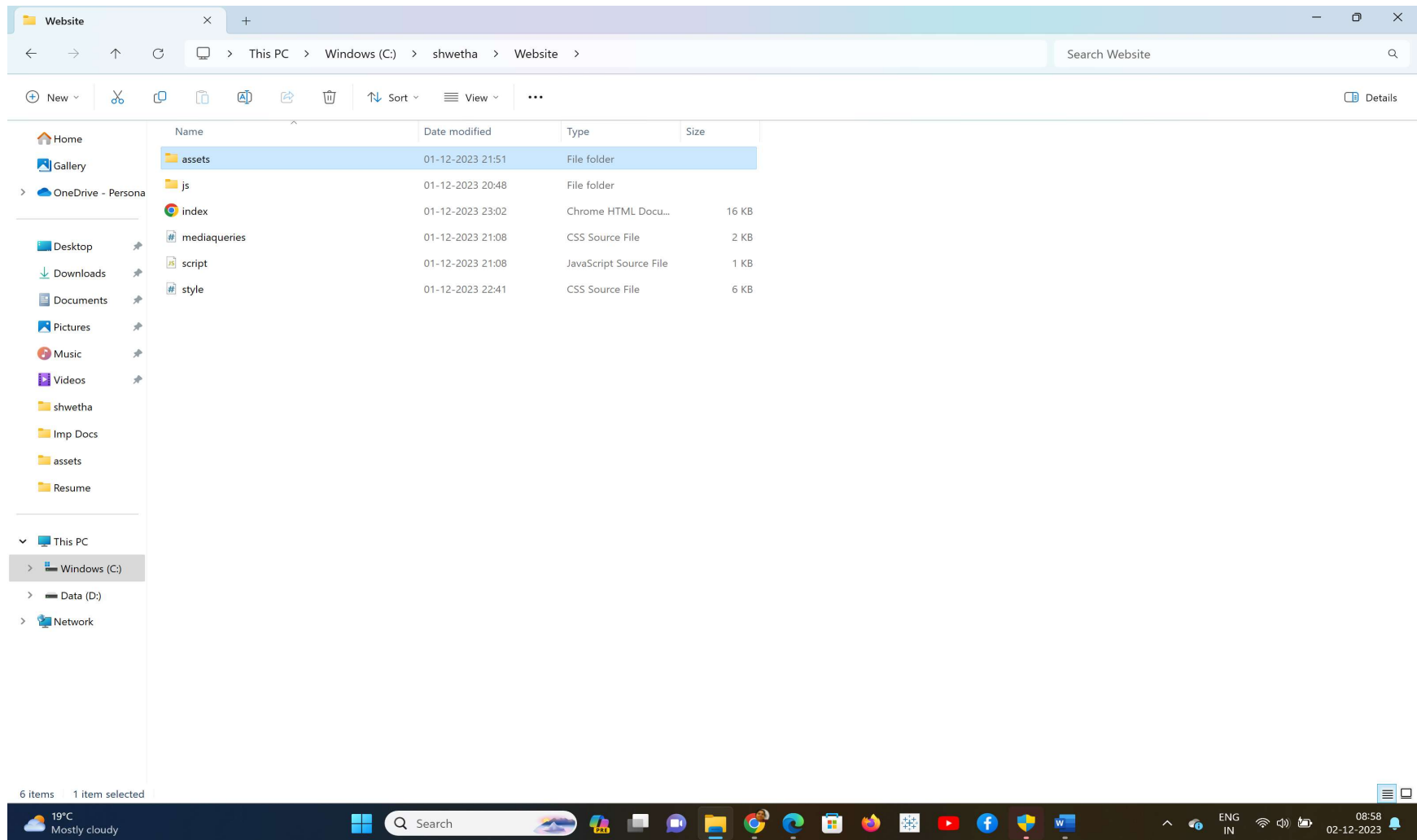


5. In VSCode, click on New File and create:

- index.html
- mediaqueries.css
- style.css
- script.js

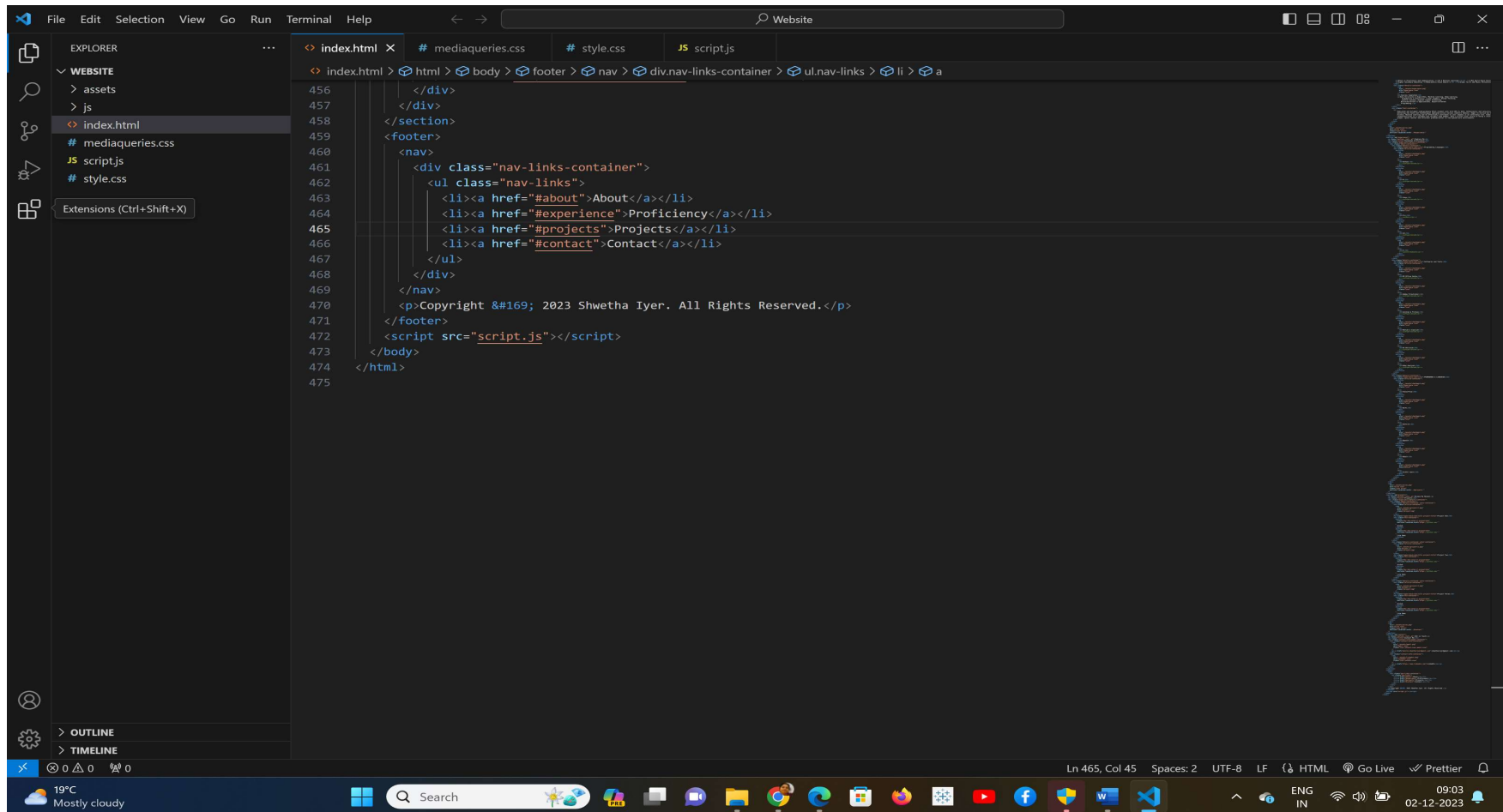


6. On your local drive, the directory structure appears as below:

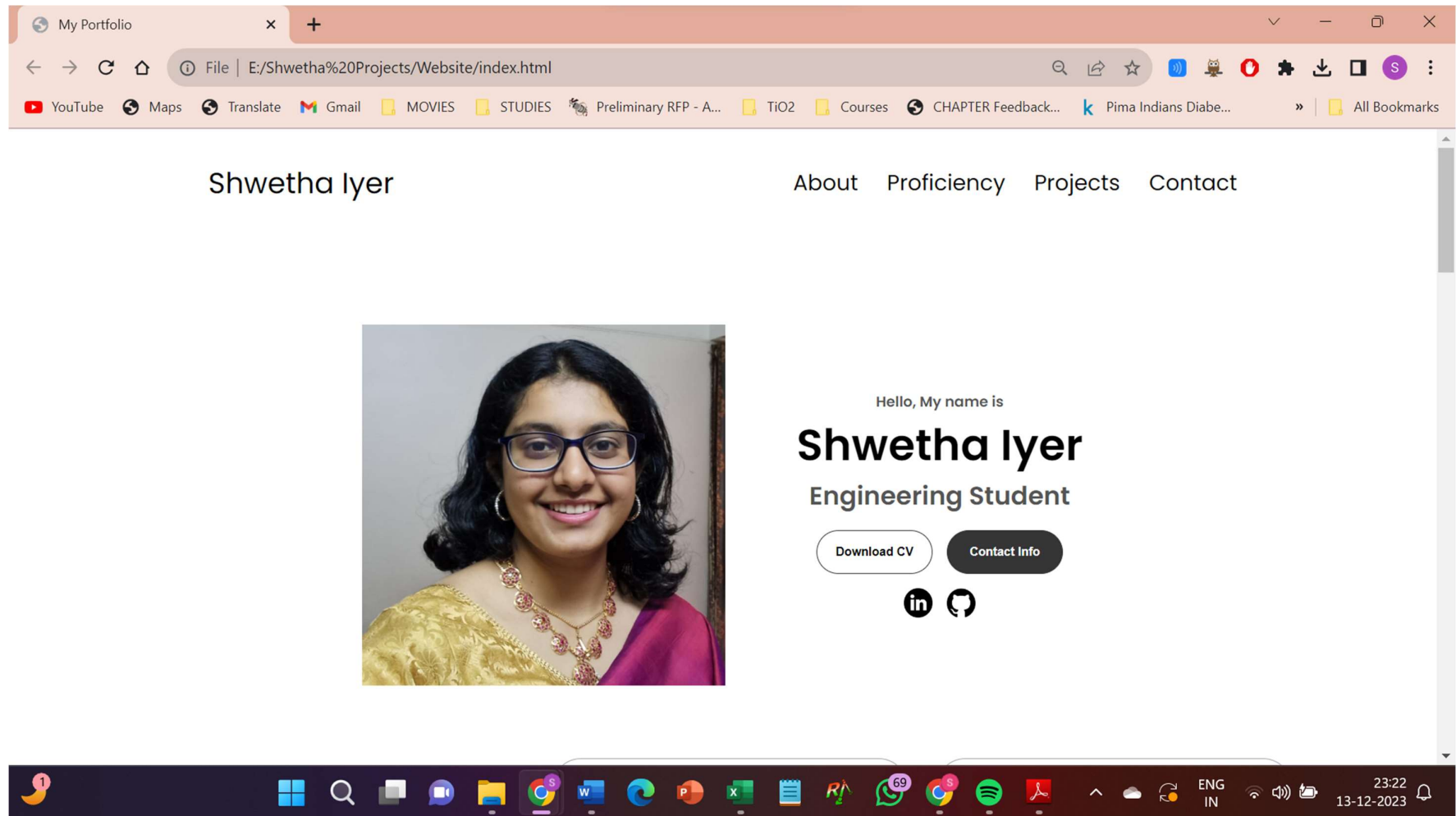


7. In VSCode, click in Extensions icon and install the following using the search window:

- Live Server
- Prettier Code Formatter



8. Type the code in the files: index.html, mediaqueries.css, style.css, script.js
9. Test it by clicking Go Live at the bottom right of the VSCode window (see Figure above).
10. For viewing subsequent code changes, open index.html in any browser.



11. Click the About link:


My Portfolio

File | E:/Shwetha%20Projects/Website/index.html#about

YouTube Maps Translate Gmail MOVIES STUDIES Preliminary RFP - A... TiO2 Courses CHAPTER Feedback... Pima Indians Diabe... All Bookmarks

Get To Know More

About Me



Education

BTech in Electronics and Communication (AI & Machine Learning)

MIT World Peace University, Pune

Higher Secondary Education Maharashtra State Board

Grade: 92.5% JEE Mains Percentile: 95.6%

My long-term academic goals are to contribute to the academic community by publishing research papers in the domains of applied AI and ML, addressing relevant problem statements in both industry and government sectors.

Additionally, I am actively working towards obtaining certifications in ML and Cloud technologies, not only to expand my knowledge but also validate my expertise in these areas. I also plan to pursue a master's program in a specialized AI, ML, or data science domain. My career goals are to engage deeper into applied sciences and research, particularly in IT solutions and the application of emerging technologies across diverse fields. I want to contribute to the development and implementation of innovative AI-driven solutions to solve complex problems in the industry.

Dedicated and diligent undergraduate BTech student with 10.0 GPA to date. Enthusiastic and naturally inclined towards mastering new tools and technologies employed across various industry domains. Eager to utilize my expertise in Data Science, Machine Learning and AI effectively contribute to your company in an internship role. Committed to delivering my responsibilities as a valuable and reliable team member. Have a proven track record of being a results-oriented team player, quick learner and efficient problem-solver in fast-paced work environments.

23:23
13-12-2023

12. Click the Proficiency Link (Use back arrow to go back to index.html and click Proficiency Link OR Click the Arrow icon at bottom right corner above):

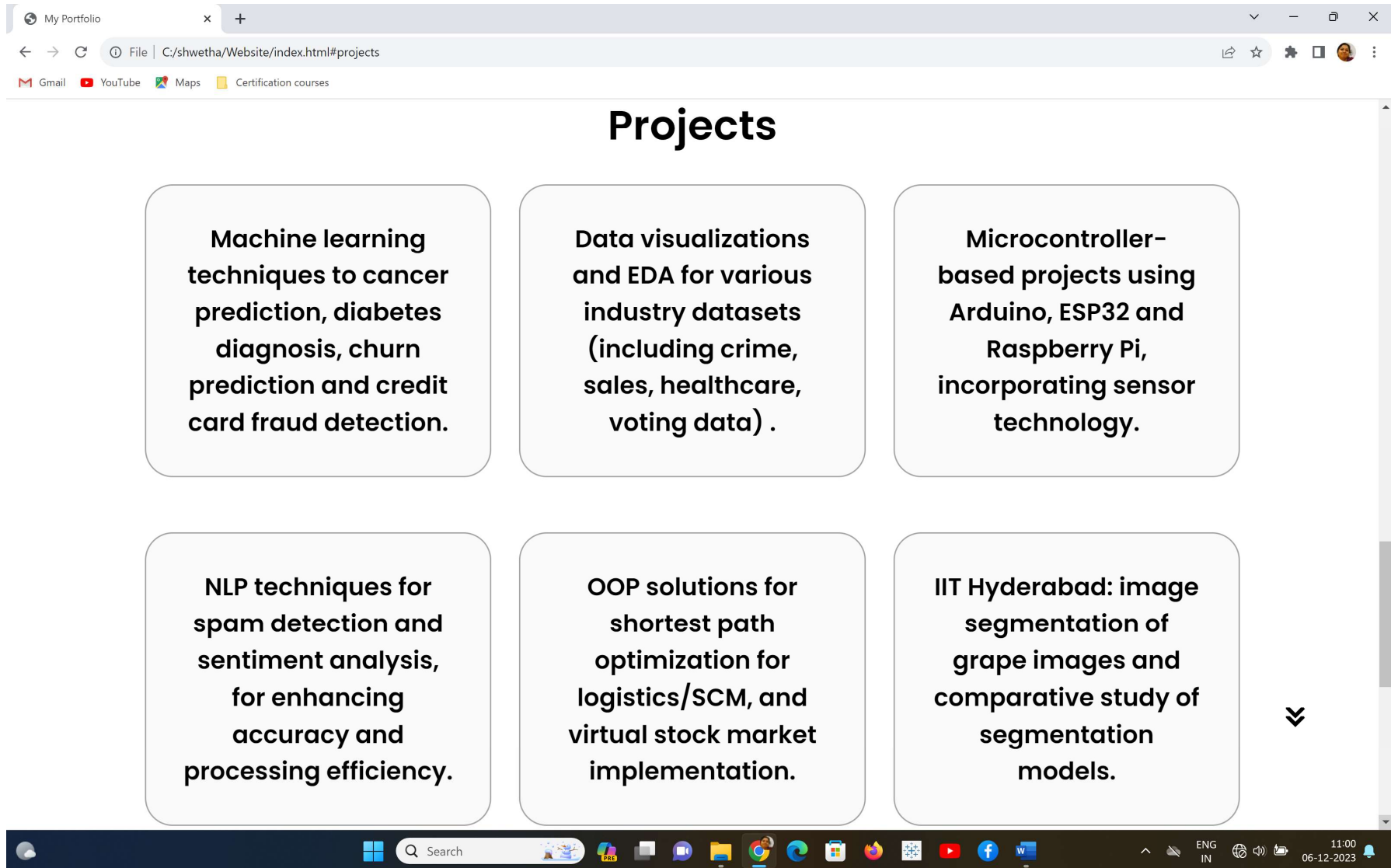
The screenshot shows a web browser window with the title 'My Portfolio'. The address bar displays the file path 'C:/shwetha/Website/index.html#experience'. Below the browser window, the 'Technical Proficiency' page is visible, featuring four columns of skills, each with a checkmark icon indicating proficiency.

Technical Proficiency

Programming	Softwares	Frameworks	Web & Data Visualization
<ul style="list-style-type: none">✓ Python Programming✓ R Programming✓ Java Programming✓ C++ Programming✓ C# Programming✓ C Programming	<ul style="list-style-type: none">✓ MS Office Suite✓ Adobe Illustrator✓ AutoCad & Proteus✓ Matlab & Simulink✓ National Instruments Multisim✓ Robo Analyzer	<ul style="list-style-type: none">✓ TensorFlow✓ Natural Language ToolKit✓ PyTorch for Deep Learning✓ OpenCV for Computer Vision✓ React Library✓ SciKit-Learn	<ul style="list-style-type: none">✓ HTML Programming✓ CSS Stylesheets✓ JavaScript Web Interface✓ Tableau For Data Visualization✓ Power BI For Data Visualization

The bottom of the browser window shows a Windows taskbar with various application icons and a system clock indicating 10:59 on 06-12-2023.

13. Click the Projects link (Use back arrow to go back to index.html and click Projects Link OR Click the Arrow icon at bottom right corner above):

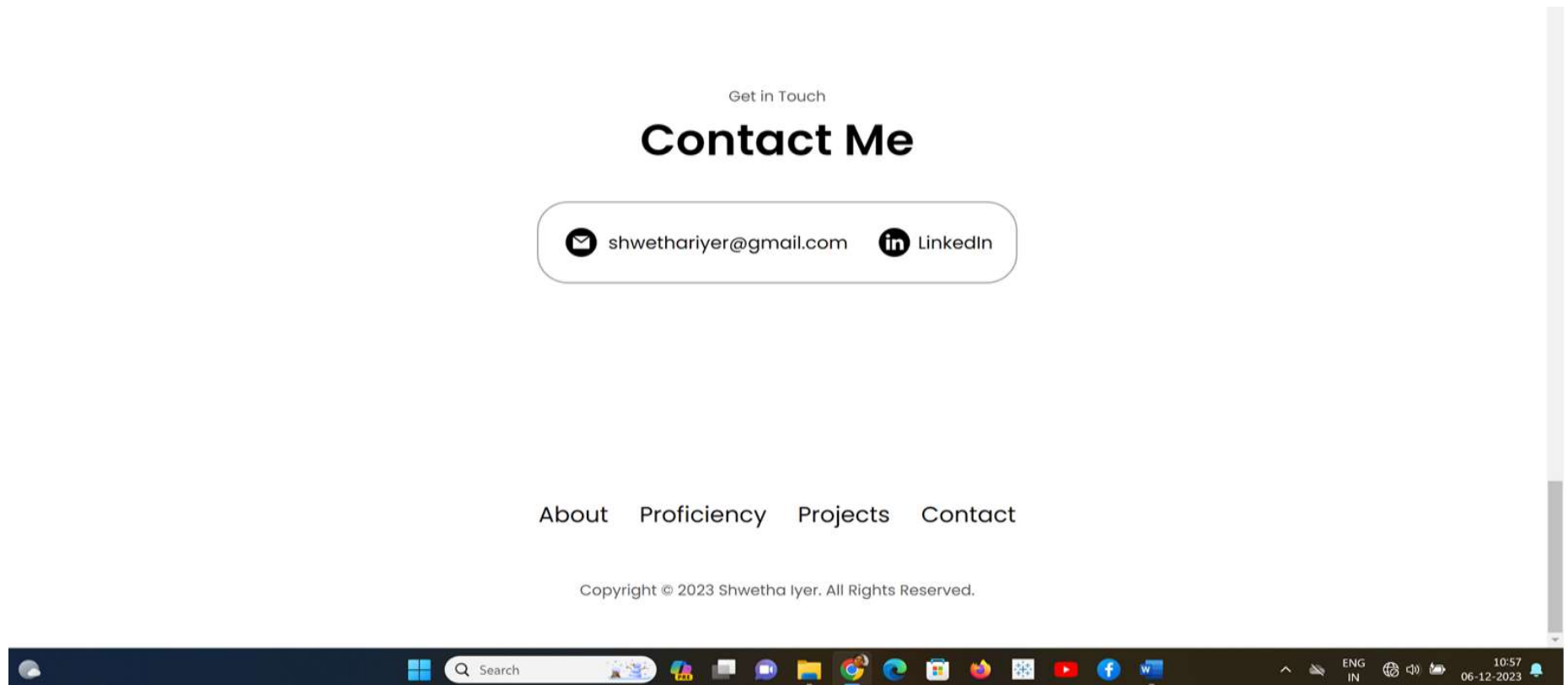


The screenshot shows a web browser window with the title 'My Portfolio'. The address bar displays the file path 'C:/shwetha/Website/index.html#projects'. The page content features a large heading 'Projects' at the top. Below the heading, there are six rounded rectangular boxes arranged in a 2x3 grid, each containing a project description. At the bottom right of the grid, there is a double arrow icon pointing downwards. The browser's taskbar at the bottom shows various application icons and the system clock indicating 11:00 on 06-12-2023.

Projects

- Machine learning techniques to cancer prediction, diabetes diagnosis, churn prediction and credit card fraud detection.**
- Data visualizations and EDA for various industry datasets (including crime, sales, healthcare, voting data) .**
- Microcontroller-based projects using Arduino, ESP32 and Raspberry Pi, incorporating sensor technology.**
- NLP techniques for spam detection and sentiment analysis, for enhancing accuracy and processing efficiency.**
- OOP solutions for shortest path optimization for logistics/SCM, and virtual stock market implementation.**
- IIT Hyderabad: image segmentation of grape images and comparative study of segmentation models.**

14. Click the Contact link (Use back arrow to go back to index.html and click Contact Link OR Click the Arrow icon at bottom right corner above). It provides links to my email account and Linked In pages.



15. On the main page (index.html), click Download CV. This will display the PDF document that can be downloaded and saved locally:

The screenshot shows a web browser with three tabs: 'Download Visual Studio Code', 'My Portfolio', and 'resume-example.pdf'. The address bar shows the URL: <chrome-extension://efaidnbmnnnibpcapjpcgclcfefindmkaj/http://127.0.0.1:5500/assets/resume-example.pdf>. The browser's toolbar includes icons for Gmail, YouTube, Maps, and Certification courses. The Adobe Acrobat interface is visible, showing the resume document. The resume content is as follows:

Welcome to Acrobat
Get unlimited tool access for 7 days with a free trial.
[Start free trial](#)
Already have a plan? [Sign in](#)

CONVERT

- PDF to Word
- PDF to JPG
- PDF to Excel
- PDF to PPT
- Convert to PDF

EDIT

- Edit text & images
- Reorder pages
- Rotate PDF pages
- Delete pages
- Split a PDF

SIGN

- Fill & Sign
- Request e-signatures

MORE [More tools](#)

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PROFILE
Dedicated and diligent undergraduate BTech student with 10.0 GPA to date. Enthusiastic and naturally inclined towards mastering new tools and technologies employed across various industry domains. Eager to utilize my expertise in Data Science, Machine Learning and AI effectively contribute to your company in an internship role. Committed to delivering my responsibilities as a valuable and reliable team member. Have a proven track record of being a results-oriented team player, quick learner and efficient problem-solver in fast-paced work environments.

EDUCATION

- BTech in Electronics and Communication (AI & Machine Learning) | 2021 – Present**
MIT World Peace University, Pune
CGPA: 10.0
Elected Class Representative | Student Volunteer | Inter-college Volleyball Player | Report and Documentation Writer | Technical Team Member of Society of Women Engineers Club
- Higher Secondary Education | Maharashtra State Board | 2021**
Rao Junior College of Science, Pune
Grade: 92.5% JEE Mains Percentile: 95.6%
Head of College Editorial Team | Student Volunteer
Received Certification of Excellence in India's Best Student Contest, 2019.
- Secondary Education | ICSE Board | 2019**
Vidya Valley School, Pune
Grade: 94.5%
Member of Student Council | Inter-school Table-Tennis Player
Taught Math & English to underprivileged children in government school.
Awarded certificate for participation in NASA's Space Settlement Design Contest.

PROJECT EXPERIENCE

- Employed machine learning techniques to diverse projects, including cancer prediction, diabetes diagnosis, customer churn prediction, credit card fraud detection, market basket analysis (recommendation system), achieving up to an estimated 92% level of accuracy.
- Created insightful data visualizations for various industry datasets (including crime, sales, healthcare, voting data) facilitating in-depth analysis and ensuring efficient and successful communication of information.
- Designed and developed multiple microcontroller-based projects using Arduino, ESP32 and Raspberry Pi, incorporating sensor technology to optimize system automation.
- Implemented natural language processing techniques for projects such as spam detection and sentiment analysis, with a focus on enhancing both accuracy and processing efficiency.
- Developed practical software solutions for real-world scenarios, involving tasks such as shortest path optimization for

The website is now ready to be hosted on a web server for public access.

4. Steps to Host the Website:

The following steps are needed to host the website after coding:

1. Pick a Reliable Web Hosting Company.
2. Choose Your Website Upload Method.
3. Upload Files to Your Website.
4. Move the Website Files to the Main Root Directory.
5. Import Your Database.
6. Check If the Website Works.

After following the above steps, the website is live on the internet.