

WEEK-10

WEB DEVELOPMENT USING AGENTIC AI, CI/CD PIPELINE AND HOSTING

Agentic AI is a new wave of artificial intelligence that acts on its own initiative, proactively pursuing goals and solving problems without constant human direction. Imagine a digital assistant that doesn't just wait for instructions but anticipates what needs to be handled, takes action, learns from results, and adapts as circumstances change—almost like a colleague who manages projects, solves unexpected issues, and collaborates with both people and machines. This humanized approach helps illustrate why agentic AI is considered a major step forward in how humans and technology work together.

How Agentic AI Differs from Other AI

What sets agentic AI apart is its blend of reasoning, contextual awareness, and continuous optimization. Traditional software needs to be told exactly what to do, following the same steps each time. Generative AI creates content but usually only when prompted. Agentic AI, however, translates knowledge into action, identifying which steps to take in real time, often breaking goals into subtasks and adjusting plans as it goes. It's less like a highly trained tool and more like a project manager that can handle surprises and nuance.

Key Characteristics

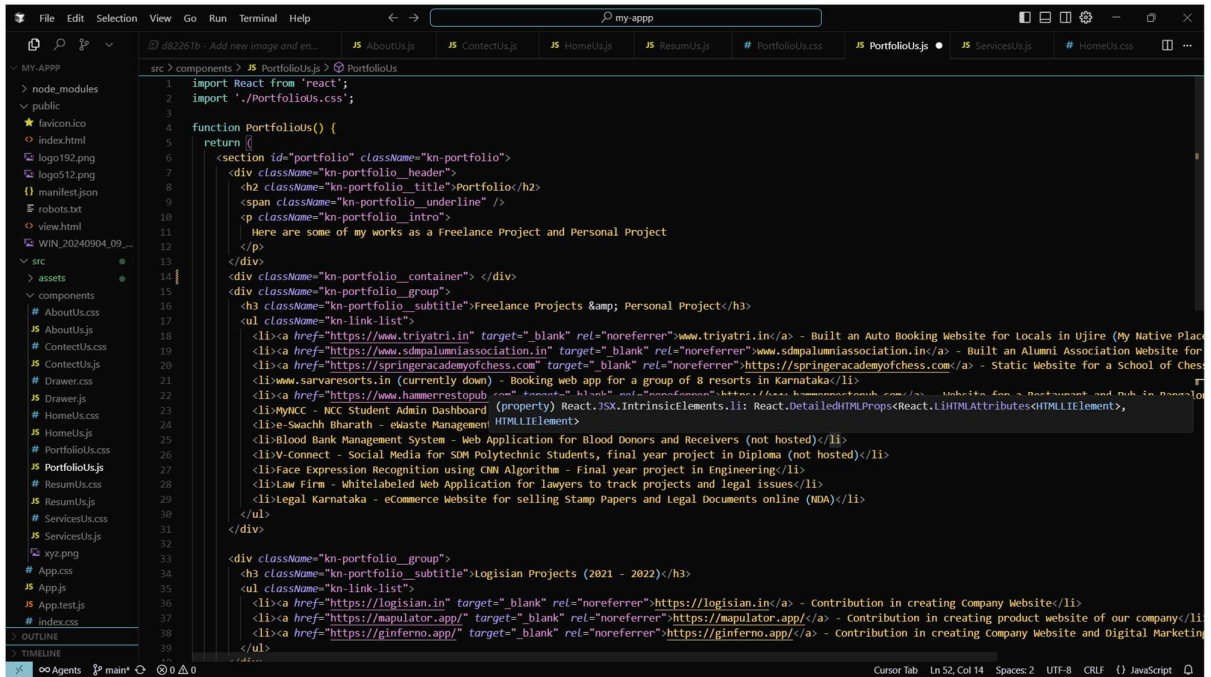
A few qualities define this new breed of AI:

- **Proactive:** Instead of waiting for a signal, agentic AI anticipates needs and initiates actions.
- **Adaptable:** It learns from each interaction and adjusts its behavior to fit new scenarios.
- **Context-Aware:** It interprets feedback, changing conditions, and user intent, making decisions based on what's happening in the moment.
- **Collaborative:** Agentic AI can coordinate with other AI agents, humans, and digital systems—much like a team player in a workplace.
- **Specialized:** Systems often comprise multiple agents, each with a deep understanding of a certain domain, working together like a crew of experts.

Portfolio development using agentic AI:

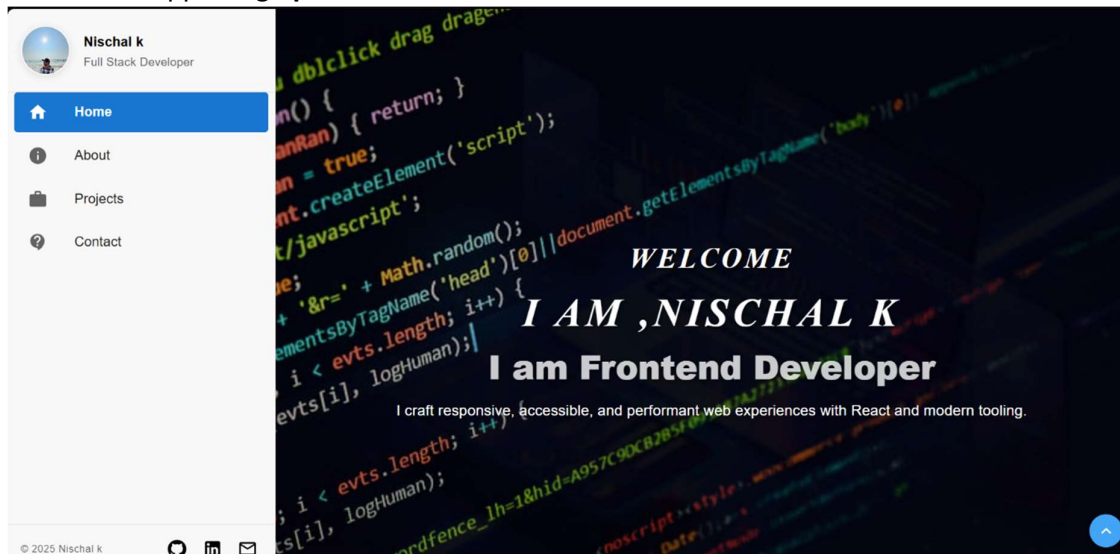
- Login to cursor AI text-editor
- Then create a app using **npx create-react-app my_906F**
- Then take screenshots of an portfolio which you want to build
- Then in chat area add the image and the components to be changed with the prompt

Convert this design into the components required



```
1 import React from 'react';
2 import './PortfolioUs.css';
3
4 function PortfolioUs() {
5   return (
6     <section id="portfolio" className="kn-portfolio">
7       <div className="kn-portfolio_header">
8         <h2 className="kn-portfolio_title">Portfolio</h2>
9         <span className="kn-portfolio_underline" />
10        <p className="kn-portfolio_intro">
11          Here are some of my works as a Freelance Project and Personal Project
12        </p>
13      </div>
14      <div className="kn-portfolio_container">
15        <div className="kn-portfolio_group">
16          <h3 className="kn-portfolio_subtitle">Freelance Projects & Personal Project</h3>
17          <ul className="kn-link-list">
18            <li><a href="https://www.triyatri.in" target="_blank" rel="noreferrer">www.triyatri.in</a> - Built an Auto Booking Website for Locals in Ujire (My Native Place)</li>
19            <li><a href="https://www.sdmopalumiassociation.in" target="_blank" rel="noreferrer">www.sdmopalumiassociation.in</a> - Built an Alumni Association Website for SDMPalumi Association</li>
20            <li><a href="https://springeracademyofchess.com" target="_blank" rel="noreferrer">https://springeracademyofchess.com</a> - Static Website for a School of Chess</li>
21            <li><a href="https://www.sarvaresorts.in" target="_blank" rel="noreferrer">https://www.sarvaresorts.in</a> - Booking web app for a group of 8 resorts in Karnataka</li>
22            <li><a href="https://www.hammerrestopub.com" target="_blank" rel="noreferrer">https://www.hammerrestopub.com</a> - Website for a Restaurant and Pub in Bangalore</li>
23            <li>MYMCC - NCC Student Admin Dashboard (Property) React.JSX.IntrinsicElements.II: React.DetailedHTMLProps<React.LIHTMLAttributes<HTMLLIElement>,
24            <li>Swachh Bharath - eWaste Management HTMLLIElement
25            <li>Blood Bank Management System - Web Application for Blood Donors and Receivers (not hosted)</li>
26            <li>V-Connect - Social Media for SVM Polytechnic Students, final year project in Diploma (not hosted)</li>
27            <li>Face Expression Recognition using CNN Algorithm - Final year project in Engineering</li>
28            <li>Law Firm - Whitelabeled Web Application for Lawyers to track projects and legal issues</li>
29            <li>Legal Karnataka - eCommerce Website for selling Stamp Papers and Legal Documents online (HDA)</li>
30          </ul>
31        </div>
32        <div className="kn-portfolio_group">
33          <h3 className="kn-portfolio_subtitle">Logisian Projects (2021 - 2022)</h3>
34          <ul className="kn-link-list">
35            <li><a href="https://logisian.in" target="_blank" rel="noreferrer">https://logisian.in</a> - Contribution in creating company Website</li>
36            <li><a href="https://mapulator.app" target="_blank" rel="noreferrer">https://mapulator.app</a> - Contribution in creating product website of our company</li>
37            <li><a href="https://ginferno.app" target="_blank" rel="noreferrer">https://ginferno.app</a> - Contribution in creating company Website and Digital Marketing</li>
38          </ul>
39        </div>
40      </div>
41    </section>
42  );
43}
```

then run the app using **npm start**



Creating git repository and to push:

- Login to GitHub using The username and password
- Create the repository as My-portfolio

Create a new repository

Repositories contain a project's files and version history. Have a project elsewhere? [Import a repository](#).
Required fields are marked with an asterisk (*).

1

General

Owner * Nischal123rcb / Repository name * myportfolio

✓ Your new repository will be created as myportfolio-.
The repository name can only contain ASCII letters, digits, and the characters -, ., and _.

Great repository names are short and memorable. How about [laughing-eureka?](#)

Description

0 / 350 characters

2

Configuration

Choose visibility * Public

Choose who can see and commit to this repository

Add README Off

READMEs can be used as longer descriptions. [About READMEs](#)

- Then enter the commands using the git commands
- After pushing to git verify once

<>

Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

myportfolio

Public

Pin

Watch 0

Fork 0

Star 0

main

1 Branch

0 Tags

Go to file

Add file

Code

About

Nischal123rcb

15th push

✓

66738f1 · 2 weeks ago

17 Commits

public	10 push	3 weeks ago
src	15th push	2 weeks ago
.gitignore	Initialize project using Create React App	3 weeks ago
README.md	Initialize project using Create React App	3 weeks ago
package-lock.json	insull push	3 weeks ago
package.json	insull push	3 weeks ago

README

myportfolio-one-navy-81.vercel.app

Readme

Activity

0 stars

0 watching

0 forks

Releases

No releases published

[Create a new release](#)

Packages

No packages published

[Publish your first package](#)

Getting Started with Create React App

Deployment:

- Login to vercel in browser using email
- Then deploy the app importing the repository from git
- Then complete deployment

nischalk762-4438's projects

Hobby

Find...

F

Feedback

Overview

Integrations

Deployments

Activity

Domains

Usage

Observability

Storage

Flags

AI Gateway

Support

Settings

Search Projects...

Add New...

Usage

Last 30 days

Updated just now

Upgrade

Edge Requests

2.1K / 1M

Fast Data Transfer

132.09 MB / 100 GB

Edge Request CPU Duration

0s / 1h

Projects

collagewebsitclon

collagewebsitclon.vercel.app

Nischalt23rcb/collagewebs...

6th push

Sep 5 on main

nischal

nischal-seven.vercel.app

Nischalt23rcb/myportfolio

15th push

Sep 2 on main

Recent Previews

Preview deployments that you have recently visited or created will appear here.