

Personal Portfolio

A report submitted in partial fulfillment of the requirements for the Award of Degree of

BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE AND ENGINEERING

By

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Reg. No: 24B95A0534



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

S.R.K.R. ENGINEERING COLLEGE(A)

SRKR MARG, CHINNA AMIRAM, BHIMAVARAM-534204, A.P

(Recognized by A.I.C.T.E New Delhi) (Accredited by NBA & NAAC)

(Affiliated to JNTU, KAKINADA)

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE

(Autonomous)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

This is to certify that the **FULL STACK DEVELOPMENT** Report titled **“Personal Portfolio”** is the bonafied work done by **Mr. Sivalanka Dinesh Venkata Kumar** bearing **Register Number: 24B95A0534** in the second year second semester at **SRKR Engineering College, Bhimavaram** from 30th december 2024 to 19th may 2025 in partial fulfillment of the requirements for the award of the degree of Bachelor of Technology in Computer Science and Engineering.

Sivalanka Dinesh Venkata Kumar

1.Overview: This project is a personal portfolio website designed for Dinesh Venkata Kumar Sivalanka. It serves to showcase skills, education, projects, and contact information in a clean, responsive, and visually appealing layout. The website is built using pure HTML, CSS, and JavaScript, with no external frameworks, ensuring lightweight performance and ease of customization.

2.Project Structure: The project files are organized in a structured manner to separate content, styling, and assets for easy navigation and maintainability.



3.Features & Functionality:

- **Home Section:** Displays a welcoming introduction with name, profession, and social media links.
- **About Section:** Provides a detailed bio and background information.
- **Education Section:** Lists educational qualifications and achievements.
- **Skills Section:** Highlights technical proficiencies including programming languages, frameworks, and tools.

- **Projects Section:** Showcases projects with brief descriptions and visuals.
- **Contact Section:** Contains email, phone, and social media links for communication.
- **Interactive Navigation:** Implements smooth scrolling and dynamic section toggling for better user experience.

4. Code Overview

index.html

- Structures the entire portfolio website using semantic HTML tags.
- Contains all main sections: Home, About, Education, Skills, Projects, and Contact.
- Includes links to external CSS and JavaScript files.

Code for the Html:

- `<!DOCTYPE html>`
- `<html lang="en">`
- `<head>`
- `<meta charset="UTF-8">`
- `<meta name="viewport" content="width=device-width, initial-scale=1.0">`
- `<title>Portfolio - Sivalanka Dinesh</title>`
- `<link rel="stylesheet" href="assets/css/styles.css">`
- `<script src="https://kit.fontawesome.com/a076d05399.js" crossorigin="anonymous"></script>`
- `</head>`
- `<body>`
- `<header>`
- `<nav>`
- ``
- `<li style="margin-right:780px;color:#ff02ea;">Dinesh Sivalanka`
- `Home`
- `About`
- `Education`
- `Skills`
- `Projects`
- `Contact`
- ``
- `</nav>`
- `</header>`
- `<section id="home">`
- `<div class="content">`
- `<h2>Hello It's Me</h2>`

- `<h1>Dinesh Venkata Kumar Sivalanka</h1>`
- `<h3>And I'm a Front-End Developer</h3>`
- `<p>Experienced Front-End Developer skilled in building responsive, user-friendly websites and web applications. Proficient in HTML, CSS, JavaScript, and popular frameworks like React and Vue. Strong collaborator with a focus on clean, maintainable code and optimizing performance across devices.</p>
`
- `<!-- Add icons here -->`
- `<div class="social-icons">`
- ``
- ``
- ``
- ``
- ``
- ``
- ``
- ``
- ``
- ``
- ``
- ``
- ``
- ``
- ``
- `</div>`
- `Download CV`
- `</div>`
- `<div class="profile-pic">`
- ``
- `</div>`
- `</section>`
- `<section id="About">`

- `<p>> <strong style="color:#7508db;font-size:18px">Gmail : sivalankadinesh2005@gmail.com</p>`
- `</div>`
- `<div class="interests">`
- `<h3>>Interests :</h3>`
- `<div class="interests-container">`
- `<div class="interest-box"> Software Engineering</div>`
- `<div class="interest-box"> Web Development</div>`
- `<div class="interest-box"> Database</div>`
- `<div class="interest-box"> Data Structures</div>`
- `<div class="interest-box"> Software Development</div>`
- `</div>`
- `</div>`
- `</div>`
- `</div>`
- `</div>`
- `<section id="education">`
- `<center>`
- `<h2>`
- `My`
- `Education`
- `</h2>`
- `</center>`
- `<div class="education-container">`
- `<div class="box education-box">`
- ``
- `<p>SRKR Engineering College, Bhimavaram, India
Jul 2024–Present
<strong style="color: #ff03dd;">B.Tech CSE | CGPA: 9.10</p>`
- `</div>`
- `<div class="box education-box">`
- ``
- `<p>Smt. B. Seetha Polytechnic, Bhimavaram, India
Sept 2021–Apr 2024
<strong style="color: #ff03dd;">Diploma CSE | Percentage: 96.5</p>`
- `</div>`
- `<div class="box education-box">`
- ``
- `<p>Govt High School Yendagandi, India
Jun 2020–Jun 2021
<strong style="color: #ff03dd;">SSC | CGPA: 9.7</p>`
- `</div>`
- `</div>`
- `</section>`
- `<section id="education">`
- `<center>`

- <h2>
- My
- Experiences
- </h2>
- </center>
- <div class="experience-container">
- <h3 style="color: #8400ff">Web Developer InternMy
Access Pvt Ltd (Nov 2023 – May 2024)</h3>
- <h4>• Completed a 6-month internship focused on full-stack development, Python programming, and machine learning.

- • Worked on a Fraud Detection in Banking Data project, improving fraud detection accuracy by up to 85% using machine learning models.

- • Developed and optimized data pipelines, reducing processing time by 40% for large financial datasets.

- • Built and deployed fraud detection models using Python, Flask, and SQL, increasing transaction validation efficiency by 25%.

- • Improved code efficiency by 15% through debugging, performance tuning, and code reviews.</h4>
- </div>
-
- </section>
- <section id="skills">
- <center>
- <h2>
- My
- Skills
- </h2>
- </center>
- <div class="skills">
- <div class="skills2">
- <center><h3 style="color: #ff02ea;">Languages and
Databases</h3></center>
-
-
-
-
-
-
-
- </div>
-

- <div class="skills2">
- <center><h3 style="color: #ff02ea;">Frameworks</h3></center>
-
-
-

- ``
- ``
- `</div>`
- `
`
- `<div class="skills2">`
- `<center><h3 style="color: #ff02ea;">Tools</h3></center>`
- ``
- ``
- ``
- `</div>`
- `</div>`
- `</section>`
-
- `<section id="projects">`
- `<center>`
- `<h2>`
- `My`
- `Projects`
- `</h2>`
- `</center> <div class="project-container">`
- `<div class="project">`
- ``
- `<div class="project-info">`
- `<p class="project-title"> Fire Control Robot</p>`
- `<p> • fire-control robot capable of navigating narrow and hazardous spaces,`
significantly reducing human risk during
- `high-intensity fire incidents.

`
- `• Implemented Arduino Uno R3, ESP32-CAM for 360° real-time video`
surveillance, and HC-05 Bluetooth
- `transceiver for wireless communication within 10 meters, ensuring precise`
operation in challenging
- `environments.</p>`
- `</div>`
- `</div>`
- `<div class="project">`
- ``
- `<div class="project-info">`
- `<p class="project-title"> Fraud Detection In Banking System </p>`
- `<p>• Developed an ML-based fraud detection system, handling an 80:20 dataset`
imbalance with class-weight tuning
- `and Bayesian optimization, improving accuracy by 10% and reducing errors by`
12% using ensemble models
- `(CatBoost, XGBoost, LightGBM)

`
- `• Analyzed 10M+ transactions using deep learning, improving precision and`
recall by 15%, reducing false
- `positives/negatives, and optimizing system performance with a 25% faster`
processing time, achieving an
- `F1-score of 0.92. </p>`

- `</div>`
- `</div>`
- `<div class="project">`
- ``
- `<div class="project-info">`
- `<p class="project-title"> AI-Powered Agriculture Web Application</p>`
- `<p> • Designed and developed a responsive frontend using HTML, CSS, and JavaScript. Implemented AI-based`
- `Disease Detection with PyTorch and ResNet for crop health analysis. Developed`
- `Crop Recommendation and`
- `Fertilizer Optimization models using Scikit-Learn.

`
- `• Built and integrated a Flask-based backend for API communication and data`
- `processing. Created an AI-powered`
- `Chatbot using NLP for farmer assistance and integrated real-time weather`
- `forecasting with OpenWeather API.</p>`
- `</div>`
- `</div>`
- `</div>`
- `</section>`
- `</div>`
- `<section id="contact">`
- `<div>`
- `<center><h2 style="color: #7508db;">Contact</h2></center>`
- `<div class="contact-container">`
- `<div class="contact">`
- `<p>📍<strong style="color: #f20688;">My Address</p>`
- `<p>Yendagandi, West Godavari, 534186, Andhra Pradesh</p>`
- `</div>`
- `<div class="contact">`
- `<p>📞<strong style="color: #f20688;">Contact</p>`
- `<p>+91`
- `9999999999</p>`
- `</div>`
- `<div class="contact">`
- `<p>✉️<strong style="color: #f20688;">Email</p>`
- `<p>sivalankadinesh2005@gmail.com</p>`
- `</div>`
- `<div class="contact">`
- `<p>🌐<strong style="color: #f20688;">Social Profiles</p>`
- `<p>`
- ``
- ``
- ``

- ``
- ``
- ``
- ``
- ``
- ``
- ``
- ``
- ``
- ``
- ``
- ``
- `</p>`
- `</div>`
- `</div>`
- `</div>`
- `</section>`
- `<script src="assets/js/script.js"></script>`
- `</body>`
- `</html>`

styles.css

- Handles all visual styling for the website.
- **Global styles:** Base layout, font settings, and color themes.
- **Section-specific styles:** Custom styles for individual sections (e.g., #home, #about, #education).
- **Animations:** Keyframes like @keyframes float and @keyframes pulse for engaging visual effects.

Code for the Css:

- `/* Smooth scrolling behavior */`

- `html {scroll-behavior: smooth;}`
- `/* Global text size adjustment */`
- `body {font-family: Arial, sans-serif;background: linear-gradient(135deg, #0d0d0d, #4b0082);color: white;margin: 0;padding: 0;scroll-snap-type: y mandatory; overflow-y: scroll;font-size: 18px; /* Increase the base font size */line-height: 1.6; /* Improve readability */}`
- `/* Style for the home section */`
- `#home {display: flex;align-items: center;justify-content: space-between; /* Space between text and image */height: 100vh; /* Full viewport height */padding: 50px; /* Add some horizontal padding */box-sizing: border-box;}`
- `#home .content {flex: 1; /* Take up available space */max-width: 50%; /* Limit the width of the text content */}`
- `/* Adjust the home section */`
- `#home .content h2 {font-size: 2rem; /* Adjust greeting text size */}`
- `#home .content h1 {font-size: 2.5rem; /* Adjust name size */}`
- `#home .content h3 {font-size: 2rem; /* Adjust profession text size */}`
- `#home .content p {font-size: 1.2rem; /* Adjust description text size */}`
- `/* Move the profile picture slightly upwards */`
- `#home .profile-pic {flex: 2;display: flex;justify-content: right; margin-top: -470px;margin-right: 100px; }`
- `.profile-pic img { max-width: 70%; height: auto;border-radius: 50%;width: 300px;border: 5px solid #b000b5;box-shadow: 0 0 15px #ff00ff;transition: all 0.3s ease-in-out;}`
- `.profile-pic img:hover {box-shadow: 0 0 30px #ff00ff, 0 0 40px #b000b5;transform: scale(1.05);}`
- `/* Adjust header section height */`
- `header {height: 60px; display: flex;align-items: center;justify-content: space-between;padding: 0 20px; box-sizing: border-box;background: linear-gradient(135deg, #0d0d0d, #4b0082);background-color: #4c4a4a;box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1); }`
- `header nav ul {display: flex;list-style: none;margin: 0;padding: 0;}`
- `header nav ul li {margin: 0 10px;}`
- `header nav ul li a {text-decoration: none;color: #ffffff; font-size: 1rem; transition: color 0.3s ease;}`

- header nav ul li a: hover {color: #ff02ea;}
- .social-icons a img {transition: transform 0.5s ease, box-shadow 0.5s ease, filter 0.5s ease;}
- .social-icons a img: hover {transform: scale(1.3) rotate(10deg); box-shadow: 0 6px 20px rgba(0, 0, 0, 0.4); filter: brightness(1.2);}
- .social-icons {list-style: none; padding: 0; margin: 0; display: flex;}
- #About {display: flex; align-items: center; height: 100vh; box-sizing: border-box; justify-content: center; padding: 160px; background-color: #1a0b2e; color: white;}
- #About .container { display: flex; align-items: center; gap: 40px; max-width: 1200px; margin: 0 auto; justify-content: flex-start;}
- #About .profile-pic {flex: 1; display: flex; justify-content: flex-start;}
- #About .profile-pic img { width: 300px; border-radius: 50%; position: relative; z-index: 2;}
- #About .content {flex: 2; max-width: 600px; margin-top: -120px;}
- #About h2 {font-size: 2rem; color: #fafafa;}
- #About h2 span {color: #6900cb;}
- #About .content p {font-size: 1.2rem; line-height: 1.6;}
- #About .btn {display: inline-block; margin-top: 10px; padding: 10px 20px; background: #b261ff; color: white; text-decoration: none; border-radius: 20px; font-weight: bold; transition: 0.3s;}
- #About .btn: hover {background: #eb05dc;}
- .modal {display: none; position: fixed; top: 0; left: 0; width: 100%; height: 100%; color: rgba(0, 0, 0, 0.8); justify-content: center; align-items: center; z-index: 1000;}
- .modal-content {background: #311a46; padding: 20px; border-radius: 10px; box-shadow: 0 4px 10px rgba(0, 0, 0, 0.5); max-width: 1200px; width: 90%; max-height: 700px; color: white; position: relative;}
- .close-btn {position: absolute; top: 10px; right: 10px; background: #ff0000; color: white; border: none; border-radius: 50%; width: 30px; height: 30px; font-size: 18px; font-weight: bold; cursor: pointer; display: flex; justify-content: center; align-items: center; box-shadow: 0 4px 10px rgba(0, 0, 0, 0.5);}
- .close-btn: hover {background: #cc0000;}
- #education, #skills, #experiences {padding: 50px 20px; background-color: #1a0b2e; color: white;}
- #education h2 {font-size: 2.5rem; text-align: center; margin-bottom: 30px;}

- .education-container {display: flex;gap: 20px;flex-wrap: wrap;justify-content: center;}
- .education-box{background: #5a2c82;padding: 20px;border-radius: 100px;color: white;text-align: center;min-width: 250px;max-width: 300px;box-shadow: 0 4px 10px rgba(0, 0, 0, 0.3);transition: transform 0.3s ease, box-shadow 0.3s ease;}
- .education-box:hover {transform: scale(1.05);box-shadow: 0 6px 15px rgba(118, 5, 255, 0.5);}
- .education-box img {max-width: 120px; margin-bottom: 15px;}
- .education-box p {font-size: 1.2rem;line-height: 1.6;}
- .experience-container {display: flex;flex-direction: column;max-width: 1500px;margin: auto;background: #311a46;padding: 0px;border-radius: 10px;text-align: left;line-height: 1.6;}
- .skills {text-align: center; background: linear-gradient(135deg, #311a46, #5a2c82);padding: 20px;border-radius: 10px;}
- #skills {padding: 50px 20px; background: #1a0b2e;color: white;text-align: center;}
- .skills2 {text-align:left;background: #311a46;padding: 20px;border-radius: 10px;height: 500px;}
- .skills img {width:100px;height:100px;margin: 60px;transition: transform 0.5s ease, filter 0.5s ease;}
- .skills img:hover {transform: scale(1.3) rotate(10deg);filter: brightness(1.2);}
- .skills-box h3 {color: #ff03dd; margin-bottom: 20px;}
- .contact-container {display: flex; flex-wrap: wrap;justify-content: center;gap: 20px;margin-top: 30px;}
- .contact {background: #311a46;padding: 20px;border-radius: 10px; box-shadow: 0 4px 10px rgba(0, 0, 0, 0.3);width: 600px;text-align: center;color: white;}
- .contact:hover {transform: scale(1.08);box-shadow: 0 6px 15px rgba(249, 2, 233, 0.5);}
- .contact a {color: #ffffff;text-decoration: none;}
- .contact a:hover {text-decoration: underline;}
- .contact img { transition: transform 0.3s ease;}
- .contact img:hover { transform: scale(1.1);}
- #contact {background-color: #1a0b2e; color: white; padding: 50px 20px; text-align: center;}
- .content {max-width: 50%;}
- .content h1 {font-size: 2.5em;font-weight: bold;}

- `.content h3 span {color: #ff13c4;}`
- `.btn {display: inline-block;background-color: #b000b5;color: white;padding: 10px 20px;text-decoration: none;margin-top: 40px;border-radius: 5px;box-shadow: 0 0 10px #b000b5, 0 0 20px #ff00ff;transition: all 0.3s ease-in-out;}`
- `.btn:hover {box-shadow: 0 0 20px #ff00ff, 0 0 30px #b000b5; transform: scale(1.1);}`
- `.box {background: #5a2c82;padding: 15px;border-radius: 5px;color: white;text-align: center;min-width: 250px;}`
- `.project-container {display: flex;flex-direction: column;gap: 40px;max-width: 900px;margin: auto;}`
- `.project {display: flex;align-items: center;gap: 20px;text-align: left; background: #1a0b2e;padding: 15px;border-radius: 10px;}`
- `.project img {max-width: 250px;border-radius: 10px;transition: transform 0.3s ease, box-shadow 0.3s ease; animation: float 2s ease-in-out infinite;}`
- `.project img:hover {transform: scale(1.2) rotate(5deg); box-shadow: 0 15px 30px rgba(0, 0, 0, 0.5), 0 0 20px #7508db, 0 0 30px #ff00ff; animation: pulse 1.5s infinite ;}`
- `@keyframes float {`
- `0% {transform: translateY(0);}`
- `50% { transform: translateY(-10px);}`
- `100% { transform: translateY(0);}}`
- `@keyframes pulse {`
- `0% {box-shadow: 0 15px 30px rgba(0, 0, 0, 0.5), 0 0 20px #7508db, 0 0 30px #ff00ff;}`
- `50% {box-shadow: 0 20px 40px rgba(0, 0, 0, 0.5), 0 0 30px #7508db, 0 0 40px #ff00ff;}`
- `100% {box-shadow: 0 15px 30px rgba(0, 0, 0, 0.5), 0 0 20px #7508db, 0 0 30px #ff00ff;}}`
- `.project:nth-child(even) {flex-direction: row-reverse;}`
- `.project-info { max-width: 650px;}`
- `.project-title {color: #7508db;font-weight: bold;}`
- `section { display: none;}`
- `section:target {display: block;height: 100vh;}`

script.js

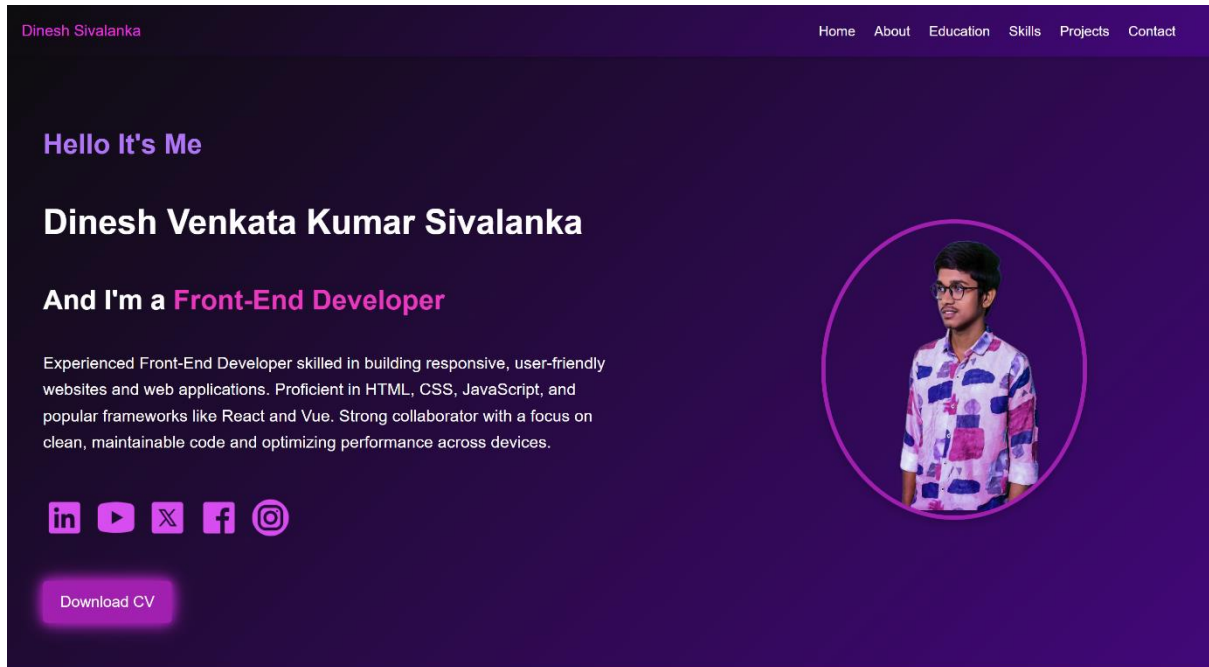
- Adds dynamic interactivity and user engagement.
- **Navigation Logic:** Enables smooth scrolling and section visibility based on navigation clicks.
- **Modal Handling:** Manages modal windows for displaying extended about details.

Code for the Js:

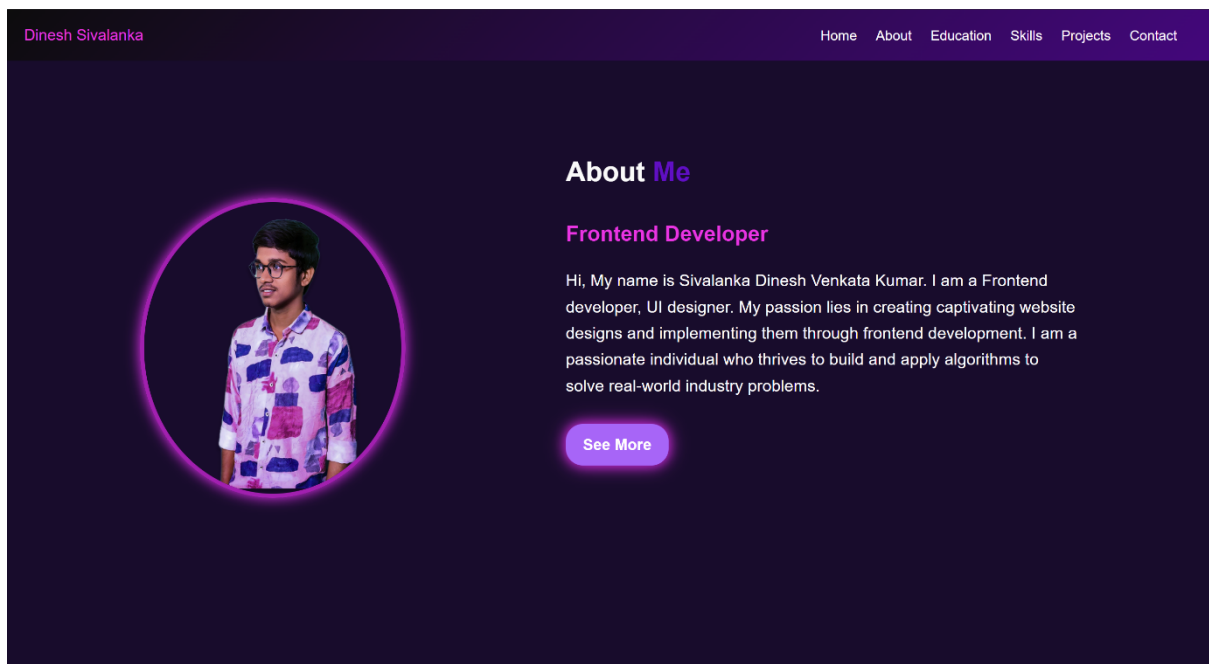
- `document.addEventListener("DOMContentLoaded", () => {`
- `const navLinks = document.querySelectorAll("nav ul li a");`
- `const sections = document.querySelectorAll("section");`
- `const showSection = (targetId) => {`
- `sections.forEach((section) => {`
- `if (section.id === targetId) {`
- `section.style.display = "block";`
- `} else {`
- `section.style.display = "none"; // Hide other sections}}});`
- `navLinks.forEach((link) => {`
- `link.addEventListener("click", (e) => {`
- `e.preventDefault(); // Prevent default anchor behavior`
- `const targetId = link.getAttribute("data-target");`
- `showSection(targetId);});`
- `showSection("home");});`
- `function showAboutDetails() {`
- `const modal = document.getElementById("about-details-modal");`
- `modal.style.display = "flex";}`
- `function closeAboutDetails() {`
- `const modal = document.getElementById("about-details-modal");`
- `modal.style.display = "none";`
- `}`

5.Outputs:

Home Page



About Page1



About Page 2

About Me

Frontend Developer

Hi, My name is Sivalanka Dinesh Venkata Kumar. I am a Frontend developer, UI designer. My passion lies in creating captivating website designs and implementing them through frontend development. I have honed my skills in web development and have a core understanding of advanced UI design principles. I am a passionate individual who thrives on building and applying algorithms to solve real-world industry problems.

- **Birthday** : 11 November 2005
- **Phone** : +91 9999999999
- **City** : Yendagandi, West Godavari, AP, 534186
- **Gmail** : sivalankadinsh2005@gmail.com

► **Interests :**

- Software Engineering
- Web Development
- Database
- Data Structures
- Software Development

Education Page

Home

About


Education

Skills

Projects

Contact

My Education



SRKR ENGINEERING COLLEGE

(Autonomous)


Recognised as Societal and Industrial Research Organisation

SRKR Engineering College,

Bhimavaram, India

Jul 2024–Present

B.Tech CSE | CGPA: 9.10



VISHNU

SBSP


Smt.B.Seetha Polytechnic College

Smt. B. Seetha Polytechnic,

Bhimavaram, India

Sept 2021–Apr 2024

Diploma CSE | Percentage: 96.5



Government of Andhra Pradesh

School Education Department

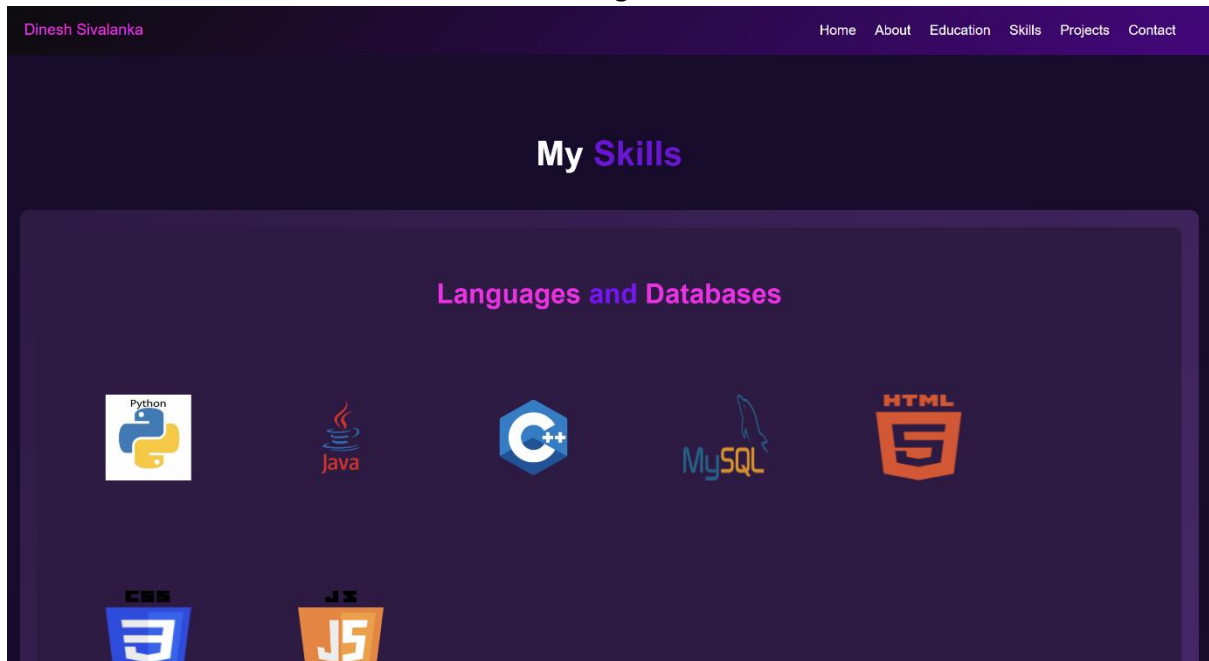
Govt High School Yendagandi,

India

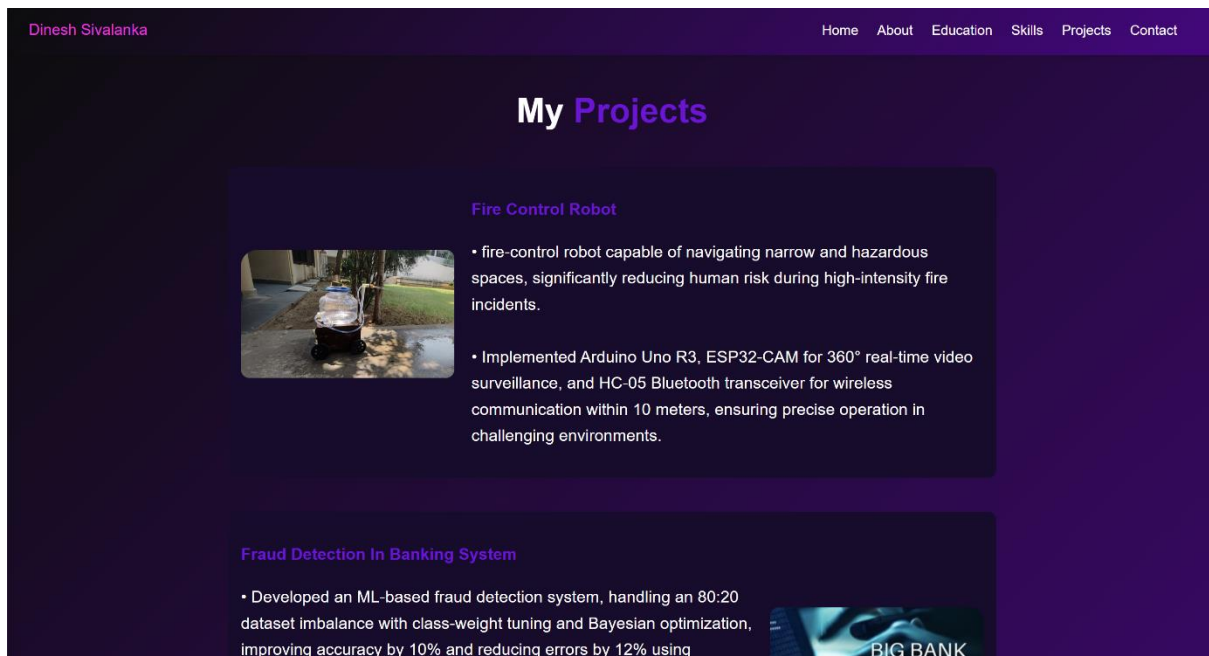
Jun 2020–Jun 2021

SSC | CGPA: 9.7

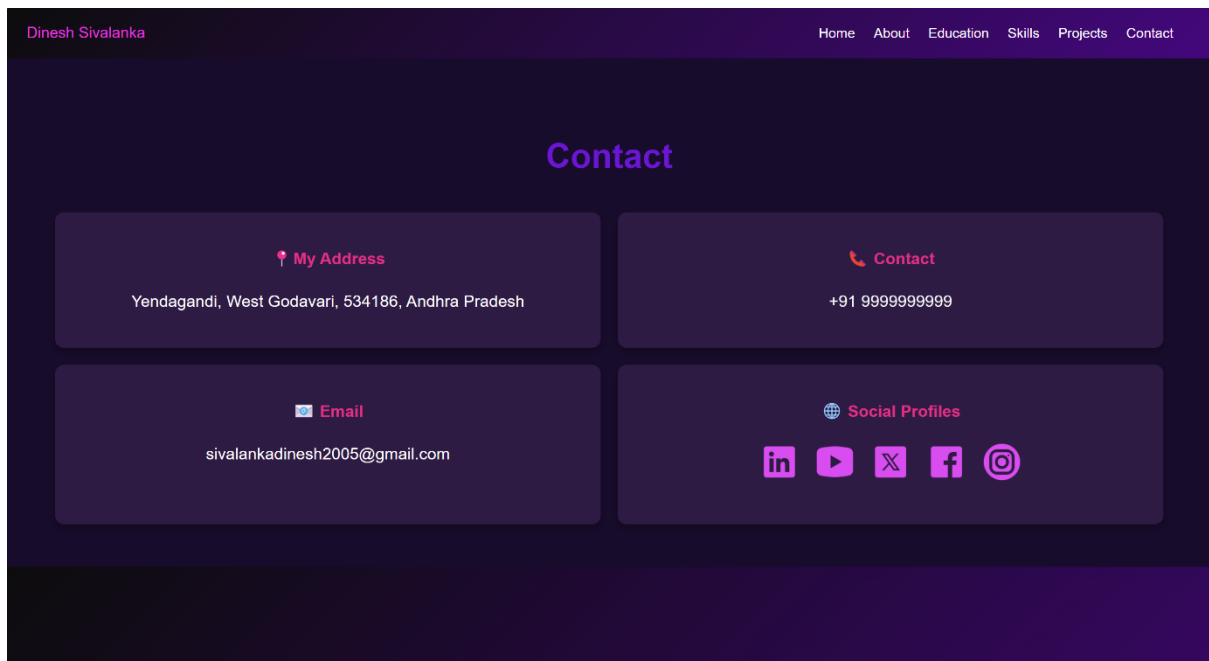
Skills Page



Project Page



Contact Page



6.Technology Stack

- **HTML5:** For semantic structure and layout of the webpage.
- **CSS3:** For styling, animations, and responsive design.
- **JavaScript :** For adding interactivity and dynamic content handling.

7.Future Enhancements

- **Dark Mode Toggle:** Allow users to switch between light and dark themes for better accessibility and preference.
- **Form Validation with Backend Integration:** Enhance the contact form with real-time validation and integrate it with backend services (e.g., Firebase or Node.js) for form handling and storage.
- **Project Filtering and Search:** Enable category-based filtering and keyword search to easily navigate through projects.