My portfolio

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Department: BSC (COMPUTER SCIENCE)

COLLEGE: VIDHYA SAGAR WOMEN'S COLLEGE

My portfolio

- Web Development

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- Personal Portfolio Website (with dark/light mode toggle)

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- Online Resume Builder

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- Blog Application (with Markdown support)

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- E-commerce Store (cart + checkout simulation)

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- Recipe Finder App (using an API)

- Data & Analytics
-
- Student Grade Management System
-
- Movie Recommendation System
-
- Weather Dashboard (API-based)
-
- Data Visualization of Sports/Finance Data
-
- Expense Tracker with Charts

- AI / Machine Learning

-

- Handwritten Digit Recognition

-

- Chatbot for FAQs

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- Fake News Detector

-

- Image Classifier (Dogs vs Cats)

-

- Sentiment Analysis on Tweets

- Mobile Apps
-
- Fitness Tracker App
-
- Meditation / Habit Tracker
-
- Notes App with Cloud Sync
-
- Event Reminder App
-
- Travel Companion App

AGENDA

- Problem statement
- Project overview
- End users
- Tools and Technologies
- Portfolio design and layout
- Features and functionality
- Result and screenshot
- Conclusion
- GitHub link

Problem statement

- Web Development
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- Project: Online Resume Builder
- Problem Statement:
- Many students and job seekers struggle to create professional-looking resumes. Existing tools are either complicated or paid. This project solves the problem by providing a simple, free, and customizable resume builder.

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- Project: Recipe Finder App
- Problem Statement:
- People often waste time searching for recipes across different websites. This app helps users quickly find recipes based on available ingredients using an API.

- Data & Analytics

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- Project: Expense Tracker

- Problem Statement:

- Managing personal expenses is a common problem for students and professionals. Manual tracking is time-consuming and error-prone. This project provides a digital solution with automatic categorization and visualization.

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- Project: Student Grade Management System

- Problem Statement:

- Teachers often find it difficult to manage student grades manually. This system helps store, manage, and calculate grades efficiently.

- Project: Fake News Detector
- Problem Statement:
- Fake news spreads rapidly on social media and confuses people. This project uses machine learning to classify news as real or fake, helping users verify authenticity.
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- Project: Sentiment Analysis on Tweets
- Problem Statement:
- Companies want to know public opinion about their products, but manual review of thousands of tweets is impossible. This project automatically analyzes sentiment (positive, negative, neutral) from tweets.

Project overview

- Web Development

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- Project: Online Resume Builder

- Project Overview:

- This project is a web application that allows users to create professional resumes with customizable templates. It features sections for personal details, education, experience, and skills. Users can preview and download their resumes instantly in PDF format.

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- Project: Recipe Finder App

- Project Overview:

- A web-based application that helps users find recipes quickly by entering available ingredients. The app fetches data from a public recipe API and displays cooking instructions, preparation time, and nutrition information.

- Data & Analytics

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- Project: Expense Tracker
- Project Overview:
- This project is a personal finance management system that enables users to record income and expenses, categorize transactions, and generate monthly reports. It also provides visual charts for better financial insights.

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- Project: Student Grade Management System
- Project Overview:
- A system designed for teachers to manage student records and grades efficiently. The application allows storing student details, calculating grades automatically, and generating performance reports.

- AI / Machine Learning

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- Project: Fake News Detector

- Project Overview:

- A machine learning-based project that classifies news articles as real or fake. The system uses natural language processing (NLP) techniques to analyze text and predict authenticity with high accuracy.

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- Project: Sentiment Analysis on Tweets

- Project Overview:

- This project collects tweets on a specific topic and performs sentiment analysis using machine learning. The system categorizes tweets into positive, negative, or neutral, providing insights into public opinion.

Who are the end users

- Web Development
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- Project: Online Resume Builder
- End Users:
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- Students preparing for jobs/internships
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- Job seekers who need professional resumes
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- Professionals looking for quick resume updates
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- Project: Recipe Finder App
- End Users:
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- Home cooks who want easy recipes
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- Busy professionals with limited ingredients
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- Beginners learning to cook

- Data & Analytics

-

- Project: Expense Tracker
- End Users:

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- Students managing pocket money

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- Professionals tracking monthly budgets

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- Families managing household expenses

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- Project: Student Grade Management System
- End Users:

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- Teachers managing student performance

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- Schools/colleges maintaining academic records

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- Students checking their results

- AI / Machine Learning

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- Project: Fake News Detector
- End Users:

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- Social media users verifying news

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- Journalists and media organizations

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- General public to avoid misinformation

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- Project: Sentiment Analysis on Tweets
- End Users:

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- Companies analyzing customer feedback

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- Political analysts studying public opinion

-

- Researchers in social media trends

Tools and Techniques

- Web Development

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- Project: Online Resume Builder

- Tools & Techniques:

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- Frontend: HTML, CSS, JavaScript

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- Backend: Node.js / PHP (optional if you add saving feature)

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- Database: MySQL / MongoDB (if storing user data)

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- Techniques: Responsive Web Design, PDF Generation, Form Handling

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- Project: Recipe Finder App

- Tools & Techniques:

-

- Frontend: HTML, CSS, JavaScript

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- API Integration: Edamam / Spoonacular Recipe API

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- Techniques: API Fetch, JSON Parsing, Search & Filter

- Data & Analytics

-

- Project: Expense Tracker

- Tools & Techniques:

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- Frontend: React.js (or HTML, CSS, JS)

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- Backend: Node.js / Django

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- Database: MySQL / Firebase

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- Techniques: CRUD Operations, Data Visualization (Charts.js, Recharts), Authentication

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- Project: Student Grade Management System

- Tools & Techniques:

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- Frontend: HTML, CSS, JavaScript

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- Backend: PHP / Django

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- Database: MySQL

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- Techniques: Data Storage, Automatic Grade Calculation, Report Generation

- AI / Machine Learning

-

- Project: Fake News Detector

- Tools & Techniques:

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- Language: Python

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- Libraries: Scikit-learn, Pandas, NumPy, NLTK

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- Techniques: Natural Language Processing (NLP), Text Classification, Machine Learning Models

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- Project: Sentiment Analysis on Tweets

- Tools & Techniques:

-

- Language: Python

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- Libraries: Tweepy (for Twitter API), NLTK, TextBlob, Matplotlib

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- Techniques: Data Collection, Text Preprocessing, Sentiment Classification, Visualization

Portfolio design and layout

- Portfolio Design & Layout

- 1. Homepage / Introduction

- My Name, Title (e.g., Web Developer | Programmer | Designer)

- About ME

- Skills Section

- Programming Languages (C, Java, Python, etc.)

- Web Development (HTML, CSS, JavaScript, React

- Brief introduction about your background and interests

- Short tagline or summary (2–3 lines about who you are)

Features and functionality

- Web Development
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- Project: Online Resume Builder
- Features & Functionality:
-
- Create and edit resumes with multiple templates
-
- Add personal details, education, skills, and experience
-
- Download resume in PDF format
-
- Responsive design for desktop and mobile
-
- Project: Recipe Finder App
- Features & Functionality:
-
- Search recipes by ingredient or dish name
-
- Fetch live recipes from a public API
-
- Display preparation steps and cooking time
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- Save favorite recipes for later

- Data & Analytics

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- Project: Expense Tracker

- Features & Functionality:

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- Add, edit, and delete expenses/income

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- Categorize transactions (food, travel, shopping, etc.)

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- Display monthly reports with charts/graphs

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- User authentication for personal accounts

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- Project: Student Grade Management System

- Features & Functionality:

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- Add and manage student details

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- Automatic grade calculation

-

- Generate performance reports

-

- Secure login for teachers/students

I'm P. Mahalakshmi

II B.Sc Computer Science student at VIDHYA SAGAR WOMEN'S COLLEGE. I like programming, making simple web pages, and playing sports.

Read more about me

ABOUT ME

Hello — I'm P. Mahalakshmi. I'm studying II B.Sc Computer Science. I enjoy learning programming, building small websites, solving problems, and taking part in college sports. I work well in teams and I keep practising to improve my skills.

SKILLS

HTML   CSS   JavaScript (basic)

Problem Solving   Teamwork

SPORTS & ACTIVITIES

I enjoy playing sports which helps me stay active and improves teamwork and focus.

CONTACT

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Made with ❤️ — P. Mahalakshmi

Conclusion

- Conclusion
- My portfolio reflects my journey of learning, creativity, and growth in the field of technology. Through these projects, I have demonstrated my skills in problem-solving, design, and development. Each work represents my dedication and ability to apply knowledge to real-world challenges. Moving forward, I aim to continuously improve, explore new tools, and take on opportunities that will enhance my skills.