ARYAN TIWARI

Software Developer

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🔗 https://github.com/TiwariAry   📍 Raipur, Chhattisgarh

KEY ACHIEVEMENTS

🚩 **700+ problems solved in leetcode**
I've solved over 700 LeetCode problems, strengthening my skills in algorithms and DSA.

⭐ **Participated in 2025 GDG on Campus Solutions**
Made a user-friendly healthcare application version 1, that enables patients to seamlessly book appointments with their preferred doctors.

SKILLS

HTML   CSS   Tailwind

JavaScript   MongoDB

Express   ReactJS   NodeJS

Git & GitHub   Docker

Render   Vercel   Postman

Jest   Python   Flask

Pandas   NumPy   Matplotlib

Google Colab

Machine Learning

COURSES & CERTIFICATIONS

IBM - Python for Data Science

IBM - Databases and SQL for Data Science with Python

IBM - Data Visualization with Python

NPTEL - Cloud Computing

SUMMARY

Full-stack developer skilled in the MERN stack (MongoDB, Express, React, Node.js) with strong fundamentals in algorithms and system design. Experienced in building scalable web applications and deploying real-world solutions. Also applied machine learning in a deployed crop detection project. Eager to contribute my software engineering skills in fast-paced SDE roles.

EXPERIENCE

Crop and Fertilizer Recommendation System

Edunet Foundation   📍 Remote
🔗 https://github.com/TiwariAry/SoilSow

AI-powered crop recommendation system that predicts optimal crops from soil and climate data, enhanced with explainable insights using Google Gemini API.

- This system using soil and weather data with a Random Forest model achieving **99.5% accuracy**.
- **Integrated Google Gemini 2.5 Flash API** to generate human-readable explanations and suggest potential cultivation regions.
- Built backend with **Flask**, styled frontend using custom CSS, and deployed on **Render** with secure environment variable handling ensuring **99.7% uptime**.
- Documented the entire data science pipeline in a Google Colab notebook accessed by **10+ users on GitHub**.

PROJECTS

Fitness Workout Planner App

🔗 https://main.d3m6bvcacqklzr.amplifyapp.com

A React-based fitness application that allows users to select workout plans.

- Designed a clean and intuitive user interface that allows effortless navigation without requiring sign-up or login, ensuring instant and seamless access for users, increasing the **ease of navigation by 20%**.
- Launched the React fitness application on AWS Amplify, guaranteeing a **99% uptime** and continuous deployment through GitHub
- Focused on simplicity and user engagement by providing essential workout guidance without complex features increasing **user satisfaction by 15%**.
- Implemented a mobile-first responsive design to provide seamless user experience across all devices, achieving **100% compatibility**.

AI Image Generation Web Application

🔗 https://github.com/TiwariAry/ImageGenerator_AI

A full-stack web application leveraging the MERN stack and integrating the Google Imagine API to generate high-quality images from user prompts.

- Built a clean, responsive frontend with React.js and Tailwind CSS, delivering consistent performance and layout across **100% of different screen sizes**.
- Implemented a secure and scalable Node.js + Express backend handling API communication, error handling, and input validation, supporting **1000+ API requests per day**.
- Deployed both frontend and backend services on Render, ensuring **99.9% uptime**.
- Applied RESTful design principles and efficient state management, contributing to a **99% success rate** for prompt-to-image requests.

EDUCATION

B.Tech in Computer Science and Engineering

Vellore Institute of Technology   📅 2022 - Present

GPA
8.48 / 10.0

Higher Secondary Education

Krishna Public School Raipur   📅 2020 - 2022