UDITYA PATEL

Software Developer

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https://github.com/Itzudii • https://www.linkedin.com/in/udityapatel/ • https://itzudii.github.io/portfolio/

Summary

Results-driven Software Developer with a robust foundation in computer science, experienced in full-stack development and AI-driven solutions. Demonstrated success in building a deep learning Stock Prediction Model and developing modular JavaScript game libraries. Skilled in Python, Java, HTML, CSS, and Flask, with a passion for innovative problem-solving and continuous learning. Proven ability to deliver impactful solutions in collaborative environments.

Education

Jawahar Navodaya Vidyalaya   Indore, Madhya Pradesh
Higher Secondary   05/2021 - 05/2021

Jaison's Academy Higher Secondary School   Indore, Madhya Pradesh
Senior Secondary   07/2023 - 07/2023

SAGE University   Indore, Madhya Pradesh
B.Tech in Computer Science & Engineering   07/2023 - Present

Certification

Basic Python Certificate - Achieved 5-star rating on HackerRank for foundational knowledge in Python

Basic Java Certificate Achieved 5-star rating on HackerRank for foundational knowledge in Java

Functions in Python Completed online course on Functions in Python by Great Learning

Introduction to AI/ML Certification from Google Cloud for Introduction to AI/ML

Basics of Python Programming Completed course on Basics of Python Programming by Infosys Springboard

Research Paper Publication Certificate Received certificate for research paper publication focused on stock prediction using LSTM

Industrial Requirements & Basic Programming in Python Participation in expert session on Industrial Requirements & Basic Programming in Python

Key Achievements

Stock Prediction Model (LSTM)

Published a research paper on Stock Prediction Model using LSTM in financial forecasting and AI

JS-Based Game Development Library

A lightweight, modular JavaScript library to simplify 2D game development. Features include sprite rendering, collision detection, animation handling, input control, and a core game loop. Applied for copyright on this project (currently under review).

Languages

Hindi Proficient   English Advanced

Skills

CSS | Data Structures | Flask | HTML | Java | JavaScript | Python | Pygame.

Projects

Stock Prediction Model

A deep learning model that predicts stock price trends based on historical data
- Built a deep learning model using LSTM networks for stock price prediction
- Published a research paper on stock prediction in JETIR
- Link to project: https://github.com/Itzudii/stock-pridiction-model

AI Game Player

An AI project using NEAT for creating an AI player
- Trained an AI agent using the NEAT algorithm to play Flappy Bird
- The neural network evolves over generations without pre-defined logic
- Link to project: https://github.com/Itzudii/FlappyBirdBot-NEAT

JS-Based Game Development Library

A JavaScript library designed for easy game development
- Created a lightweight JavaScript library for 2D game development using HTML5 Canvas
- Filed for copyright protection for the source code and design of the library
- Link to project: https://github.com/Itzudii/JSnake-Lib (private repo)

Car Rental Website

A comprehensive web application for car rentals
- full-stack car rental web app with user authentication, dynamic vehicle listings, and real-time booking functionality.
- Utilized Flask for back-end development
- Link to project: https://github.com/Itzudii/Car-Rental-Website-Flask-python

Trip & Location Info Website

A travel information website providing integrated data from various sources
- Designed a travel web Application using multiple APIs for maps, routes, and traffic updates
- Link to project: https://github.com/Itzudii/TRIPYY

Interests

Programming and Learning

Passionate about programming and coding, enjoys solving logical problems and building creative solutions. Eager to learn new technologies

Extra Curricular Activities

Hackathon Experience

Participated in the national-level Smart India Hackathon. Collaborated in a team to brainstorm and propose a tech-based solution for a real-world problem statement. Gained experience in ideation, teamwork, and rapid problem-solving under time constraints

Declaration

I, Uditya Patel, hereby declare that the information contained herein is true and correct to the best of my knowledge and belief.