

# Rudranil Patra

rudranil.patra04@gmail.com — 8918257148  
LinkedIn — GitHub — Portfolio

## Education

**SRM Institute of Science and Technology**  
B.Tech in Computer Science and Technology  
CGPA: 7.65

*Expected: 2026*

## Projects

I am a passionate full-stack web developer with expertise in both frontend and backend technologies. I enjoy building scalable, user-friendly applications and focus on writing clean, efficient code while ensuring a seamless user experience. I actively explore new tools and frameworks to deliver innovative solutions across diverse domains.

### Full-Stack Web Development

- **Bus Booking System** – Developed a web-based booking platform with authentication, seat reservation, and secure payments using React, Node.js, and MySQL. Implemented dynamic seat checks and automated email confirmations to streamline the booking process.
- **Portfolio Website** – Created a responsive personal portfolio using HTML, CSS, and JavaScript. Showcases my projects and skills, optimized for performance and SEO with a 95% Lighthouse score.
- **GrocGuardian** – Grocery expiry tracker with alerts and recipe suggestions using React + TailwindCSS. Designed to help reduce food waste by notifying users before expiry and suggesting creative recipes.
- **Car/Bike Rental Management Application** – Built a rental management app for local shops with secure authentication, booking management, and real-time availability tracking using React, Node.js, and MySQL. Enables shop owners to efficiently manage their vehicle listings and customer reservations.

### Software & AI-Based Projects

- **Deepfake Detection in ML** – Python ML pipeline using OpenCV and TensorFlow to detect deepfake media with 90%+ accuracy. Uses CNN-based models for reliable content authenticity verification.
- **Enhanced Virtual Assistant (Java)** – Voice-enabled assistant integrating SpeechRecognition APIs for task automation. Capable of opening applications, fetching data, and performing routine computer tasks.
- **Weather App (Python)** – Real-time weather app fetching live API data with geolocation-based search. Includes both CLI and GUI modes for flexibility.
- **Online Shopping Management (MySQL Database)** – Optimized relational database for inventory and orders, reducing query time by 25%. Supports efficient transaction management for e-commerce operations.

## Certifications

- Oracle Cloud Infrastructure 2025 Certified Foundations Associate
- Alteryx Designer Core Micro-Credential – Data Preparation
- AWS Academy Graduate – AWS Academy Machine Learning Foundations
- MATLAB Onramp
- Deloitte Data Analytics Job Simulation
- CISCO JavaScript Essentials
- Networking Basics Badge
- CISCO Computer Networks
- SCLER Database
- Udemy Full-Stack Web Development
- Udemy Computer Graphics and Animation

## Skills

**Programming Languages:** C, C++, Python, JavaScript

**Web Development:** HTML, CSS, React, Node.js

**Tools & Technologies:** Git, GitHub, VS Code

**AI Tools:** TensorFlow, OpenCV, Keras, Scikit-learn, Pandas

**Other Skills:** Problem Solving, Data Structures, Algorithms