

# DIWANSHI PANDEY

## Software Development Engineer | Full-Stack Developer

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GitHub / LeetCode / Portfolio

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## EDUCATION

### D Y Patil International University

Degree: B.Tech in Computer Science and Engineering CGPA: 7.44

Pune, India

June 2022 - Present

### Dreams Valley Public School

12th - PCM; Percentage: 83.68

Satna, India

May 2020 - May 2021

## SKILLS SUMMARY

- **Programming Languages:** Java, Python, C++, JavaScript
- **Databases & Cloud:** MySQL, MongoDB, AWS(Beginner)
- **Frameworks/ Tools:** Postman, RESTful APIs, WebSockets, React JS, Node.js, Spring Boot,
- **Tools and Fundamental:** Data Structures & Algorithms (DSA), Operating System, Git, GitHub, Debugging, Problem-Solving

## WORK EXPERIENCE

### Web Developer Intern | Radhakrishna Web Solution | [Link](#)

June 2025 - Aug 2025

- Developed 10+ responsive web pages using HTML, CSS, and JavaScript for improved UI/UX.
- Built client projects including a Gym Website and HosLink property platform.
- Implemented PHP/MySQL backend modules for dynamic content and data handling.
- Designed, tested, and deployed applications on XAMPP with smooth front-end and back-end integration.

**Tech Stack:** HTML, CSS, MySQL, JavaScript, PHP, XAMPP, Figma, Frontend development

### Research Intern | University of Kerala | [Link](#)

May 2025 - July 2025

- Researched and compared Neuromorphic Chips vs GPUs for Large Language Model efficiency.
- Tested Spiking Neural Networks (SNNs) using Nengo, Brian2, and baseline models in PyTorch.
- Explored ANN-SNN hybrid architectures for efficient NLP processing and real-time performance.
- Contributed to a research paper, documenting energy efficiency, performance, and societal impact.

**Tech Stack:** Neuromorphic Computing, Spiking Neural Networks, Nengo, Brian2, GPUs

## PROJECTS

### SkinInsight AI | [Link](#) | [Demo Link](#)

- Built an AI-powered skin analysis system using HTML, CSS, JS and Rest API.
- Integrated Gemini API and LLaMA 3 for skin analysis, chatbot, and recommendations.
- Implemented image upload and processing for generating skincare insights.
- Developed features for diet suggestions, user history tracking, and doctor consultation.
- Designed REST APIs for efficient frontend-backend communication.

**Tech Stack:** Python, React.js, MongoDB, Gemini API, LLaMA 3, OpenCV, Computer Vision

### FarmSmart AI | [Link](#)

- Built a reinforcement learning based smart irrigation system using Monte Carlo, TD Learning, Q-Learning, and DQN.
- Created a real-data-driven environment using crop, soil, weather, fertilizer, and moisture parameters.
- Trained RL agents to optimize irrigation decisions, achieving higher water efficiency than baseline policies.
- Developed a Crop Requirement Checker with visual dashboards for irrigation and fertilizer recommendations.

**Tech Stack:** Python, Monte Carlo, baseline policy, TD learning, Q-learning, DQN.

## CERTIFICATES

- Smart India Hackathon (SIH)-2024 | [Link](#)
- JAVA(Core) | [Link](#)
- Amazon Web Service (Beginner) | [Link](#)

## EXTRA CURRICULAR ACTIVITIES

- Solved 100+ problems on LeetCode, GfG together, demonstrating strong problem-solving and coding skills. | [Link](#)
- Completed a social work internship, contributing to community development and teamwork.
- Anchored and hosted events in school and college clubs, showcasing leadership and communication abilities
- Teaching Assistant: MAD