

DIVYANSHU YADAV

Jaipur, India | +91 9351532707 | yadavdavid382@gmail.com | LinkedIn | GitHub | Portfolio

PROFESSIONAL SUMMARY

Results-driven Computer Science and Artificial Intelligence student at JK LakshmiPat University with a strong foundation in full-stack web development, machine learning, and core programming. Experienced in building production-ready portals and appraisal platforms during university internships. Demonstrates leadership and communication skills developed through teaching assistantships in C and Python. Eager to leverage strong technical capabilities to drive impact as a Full-Stack Developer or Machine Learning intern.

EDUCATION

JK LakshmiPat University

Bachelor of Technology in Computer Science & Engineering (Specialization: AI)

Academic Standing: Honors List

Jaipur, India

Expected 2028

CORE TECHNICAL SKILLS

Programming Languages: Python, JavaScript (ES6+), C, C++, SQL (SQLite, MySQL)

Web Development & Frameworks: React, Node.js, Express, Flask (Python), HTML5, CSS3

Machine Learning & Data Science: Pandas, NumPy, Scikit-learn, TensorFlow/PyTorch, Computer Vision (OpenCV), NLP

Web Technologies & Protocols: WebSockets, WebRTC, REST APIs, JSON

Developer Tools & Databases: Git/GitHub, SQLite, MySQL, VS Code, Docker, Git

PROFESSIONAL EXPERIENCE & INTERNSHIPS

JK LakshmiPat University — Full-Stack Summer Intern

May 2026 – July 2026

- Solely architected and developed **Samiksha**, a student-centered feedback mechanism and appraisal portal to aid teaching processes.
- Designed intuitive dashboards for student input and administrative reporting, improving system transparency.
- Optimized backend database queries, reducing data retrieval and feedback-processing time by 30%.

JK LakshmiPat University — Teaching Assistant (Python & C)

Aug 2025 – Present

- Instructed lab sessions and debugged foundational code for a batch of 60+ undergraduate students.
- Evaluated student assignments and designed comprehensive programming exercises under the professor's guidance.

PROJECTS

BubbleID-Reproduction — Deep Learning & Computer Vision

GitHub Link

- Replicated and benchmarked the state-of-the-art BubbleID deep learning framework designed to study pool boiling heat transfer processes.
- Built a high-performance image processing pipeline utilizing Mask R-CNN for pixel-level semantic segmentation of vapor bubbles.
- Integrated OC-SORT (Observation-Centric SORT) to track bubble trajectories, nucleation, and departure events across high-speed video frames.

vibe-chat — Real-time Messaging & Video Calling Platform

GitHub Link

- Engineered a responsive, full-featured web communication platform allowing users to interact via real-time messaging and peer video rooms.
- Designed a bi-directional event-driven signaling channel using Socket.io to enable instant text messaging and room synchronizations.
- Implemented low-latency audio/video calling using WebRTC peer-to-peer protocols and STUN/TURN servers to establish secure connections.

LeetCode Solutions — Data Structures & Algorithms

GitHub Link

- Created a personal repository for daily problem-solving to master advanced algorithm designs and computational efficiency.
- Solved multiple complexity levels using optimal time/space methods (e.g. Binary Search, Two-pointers, HashMaps).
- Documented complexity analysis (Big-O notation) and mathematical optimizations for every solution.

JKLU Appraisal System — Full-Stack Performance Portal

Private Repository

- Developed key modules of an enterprise performance appraisal system designed to digitize academic and administrative evaluations.
- Designed relational database models using Flask-SQLAlchemy to capture publications, patents, and teaching feedback.
- Programmed the appraisal scoring engine to compute points based on publication indexes and author order; built custom PDF/Excel exporters.

CERTIFICATIONS

- HackerRank:** SQL (Intermediate) [62122ef2428b], Problem Solving (Basic) [c4a79f66666b], SQL (Basic) [bbf6076ae8f9], Python (Basic) [7fdc5f0187af]
- Coursera:** Programming with C++ (Simplilearn) [XEBPREKSD9H2], Python Data Structures (Michigan) [1VDHAXLCXG9R], Programming for Everybody (Michigan) [02EE3KE7V869]

AWARDS & ACTIVITIES

- Academic Honors:** Consistently recognized on the Dean's List / Honors List for outstanding academic performance.
- Extracurriculars:** Active squad player for the JKLU Cricket Team, competing in inter-university tournaments.