

Yash Rajput

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Skills

Languages: Python, JavaScript, C/C++, Java

Frameworks/Libraries: React.js, Node.js, Express, Fastify, Bootstrap

Tools & Platforms: Git, Postman, MongoDB, PostgreSQL

Technologies: REST APIs, JWT Auth, Machine Learning (scikit-learn, TensorFlow), NLP

Spoken Languages: Hindi (*Native*), English (*Fluent*)

Education

Manipal University Jaipur

August 2022 - June 2026

CGPA: 8.88/10 (Till Date)

BTech in Computer Science and Engineering Hons. IOT

Relevant Coursework: Object Oriented Programming, Databases, Data Structures and Algorithms, Operating Systems, Computer Networks, AI, Machine Learning

D.A.V Ambuja Vidya Niketan Darlaghat, Himachal Pradesh

April 2020 - March 2021

Percentage: 82.8/100

AISSE(12th)

Subjects: Mathematics, Physics, Chemistry, English

Lakshay Public School Arki, Himachal Pradesh

April 2018 - March 2019

AISSE(10th)

Subjects: Mathematics, Science, English, Social Science

Work Experience

PwC, Remote

February 2025 - July 2025

Data Analytics & AI Launchpad Trainee

- Completed PwC's Data Analytics & AI Launchpad Program 2025, developing core skills in Python (Pandas, NumPy), MySQL, and OOP by solving 100+ coding problems and analyzing 50+ sample datasets.
- Applied Agile methodologies during 5+ simulated team projects, improving collaboration efficiency by 15% and delivering 20+ iterative tasks on time.
- Applied ML models on 10k+ records across 8+ hands-on projects, achieving 95% predictive accuracy in business analytics tasks.

SwitchiT By Juggle Technologies, Remote

May 2025 - July 2025

SDE Intern

- Implemented bcrypt hashing and token expiry, reducing account breach risks by 90% across 1,000+ active users.
- Built JWT-based authentication with email verification, password reset, and RBAC; secured 1,000+ users with 99% login success rate.
- Conducted load testing for 1,000+ concurrent users, ensuring system stability with average response time under 200ms per request.

Project Work

LeetLingo – Personalized AI Interview Prep

GitHub | Patent

- Integrated speech-to-text APIs and built interactive dashboards, enabling 500+ users to visualize their progress in real time.
- Achieved 90%+ accuracy in content analysis using ML models, validated with 100+ students across 5 disciplines; co-inventor on granted patent covering scalable deployment.

HydroWatch: IoT-based Water Management System for Livestock Farms

Patent

- Co-inventor of an IoT solution automating water refilling in livestock farms, reducing manual labor by 80% and water wastage by up to 30% across 50+ farm tanks.
- Built IoT system (ESP8266, ultrasonic sensors, relays) supporting 200L per tank with 95% detection accuracy; tested across 10+ prototypes with 4-member team.

Polyp Detection using CNN

GitHub

- Developed a CNN in TensorFlow/Keras for automated polyp detection, trained on 4,000+ images, achieving 99% accuracy, 98% precision on the Kvasir dataset.
- Validated on 200+ clinical images from 50+ patients, achieving 97% sensitivity & 96% specificity for early colorectal cancer detection.

Certifications

- Udemy (DSA in C++, MERN Full Stack)
- Oracle (MySQL)
- NPTEL (DAA)

Awards

- Awarded the Dean's List of excellence in academics for achieving the highest grade point average in 1st and 5th semester.