

Yash Rajput

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Skills

- **Languages:** Python, JavaScript, C/C++ , Java.
- **Frameworks and Libraries:** React.js, Node.js, Express, Fastify, Bootstrap.
- **Tools and Platforms:** Git, Postman, MongoDB, PostgreSQL.
- **Technologies:** REST APIs, JWT Auth, Machine Learning (scikit-learn, TensorFlow), NLP
- **Concepts:** Data Structures and Algorithms, OOP, OS, DBMS, Networks

Experience

- Software Development Intern, Switch iT** **May 2025 – July 2025**
- Engineered and deployed scalable REST APIs using Node.js and Fastify, reducing latency by 20 percent.
 - Built a secure authentication system using JWT, enabling email verification, password reset, and role-based access for 1,000+ users.
 - Collaborated cross-functionally with frontend developers to implement and deliver full-stack features, improving user onboarding efficiency by 30% .
- Data Analytics and AI Launchpad Trainee, PwC** **Feb 2025 – July 2025**
- Completed intensive training in Python, SQL, RDBMS, and AI tools for business problem-solving.
 - Preprocessed and analyzed real-world datasets, building predictive models for insights and decision-making.
 - Designed ETL pipelines and data warehouses, streamlining data processing for analytics projects.

Education

- B.Tech(Hons) in Computer Science (IoT and Intelligent Systems)** **2022 – Present**
Manipal University Jaipur *CGPA: 8.88/10*
- Secondary School Certificate (10th Standard)** **2019**
Lakshay Public School *Percentage: 92.14%*
- Higher School Certificate (12th Standard)** **2021**
D.A.V Ambuja Vidya Niketan, Darlaghat *Percentage: 82.8%*

Certifications & Awards

- Dean's List of Excellence in Academics (First and Fifth Semesters). [Link](#)
- Earned certification from IIT Madras through NPTEL, 2024 (Design and Analysis of Algorithms). [Link](#)

Projects

- LeetLingo– Personalized AI Interview Prep** **GitHub**
- Developed a full-stack web app using React, Flask, Python, and NLP to analyze interview responses for vocabulary, fluency, and confidence.
 - Integrated speech-to-text APIs and built dashboards to visualize user progress.
 - Achieved greater than 90% accuracy in content analysis using custom-trained ML models.
- Polyp Detection using CNN** **GitHub**
- Designed and trained a CNN model in TensorFlow/Keras, achieving 99% accuracy on the Kvasir medical dataset.
 - Automated polyp detection in colonoscopy images to assist in early colorectal cancer diagnosis.
- Real-Time Currency Converter** **GitHub**
- Built a React Hooks app using a live exchange-rate API to convert global currencies in real-time.
 - Implemented optimized state management and responsive UI for seamless conversions.

Publications

- HydroWatch: IoT-based Water Management System for Livestock Farms** **Link**
- Co-inventor of an IoT solution automating water refilling in livestock farms to reduce manual labor and water waste.
 - Filed patent (Application No. 202411086633 A) on Nov 11, 2024; published in Patent Office Journal No. 47/2024.
 - System uses ESP8266, ultrasonic sensor, relay, and water motor for efficient water level management.
 - Developed in collaboration with Manipal University Jaipur and team members Aagaaz Kapoor, Pranjal Shah, and Dr. Hemlata Goyal.