

# Shivansh Rajput

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## Summary

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Motivated third-year Computer Science student specializing in AI and ML. Proficient in Python with experience in developing innovative projects, seeking an internship to contribute to impactful software solutions.

## Education

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**Manipal University Jaipur**, Jaipur Sep 2022 – Present  
Bachelor of Technology (BTech) - Computer Engineering

- GPA: 7.0 / 10.0

**Birla Public School**, Pilani Jan 2021 – March 2022  
High School (PCM+IT Stream)

- Percentage: 89%

## Skills

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

**Databases:** MySQL

**Web Technologies:** HTML, CSS

**Tools & Platforms:** Git, GitHub, VS Code, Linux

**AI/ML Concepts & Libraries:** Machine Learning, Deep Learning, Computer Vision, Natural Language Processing (NLP), Large Language Models (LLM), Object Detection (YOLOv8), Image Classification (CNN), TensorFlow, Keras

## Projects

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### Real-Time CCTV Object Detection & Logging

- Developed a Python-based system using YOLOv8 to detect and label objects (e.g., cars, trucks, people) in live video feeds, saving timestamps for later retrieval.
- Integrated an image captioning model to generate descriptions for detected objects and maintained a searchable log for quick event retrieval.
- **Technologies Used:** Python, YOLOv8, Object Detection, Image Captioning, Real-Time Processing

### Sign-Language-to-Text Conversion

[GitHub Link](#)

- Built a machine learning model to convert sign language gestures into text using computer vision techniques.
- Trained the model on 8,400 images captured via webcam for accurate gesture recognition.
- **Technologies Used:** Python, Machine Learning, Computer Vision, OpenCV (likely used), Webcam Data Processing

### Chat Assistant for SQLite Database (Trained LLM)

- Developed a chat assistant capable of generating SQL queries using a fine-tuned DeepSeek-R1-Distill-Qwen-1.5B model on 7,000+ SQL commands.
- Achieved a training loss of 1.47 in just 1 epoch, demonstrating efficient model learning.
- Designed and implemented model inference with support for natural language to SQL conversion for database queries.
- **Technologies Used:** Python, LLM Fine-Tuning (DeepSeek), NLP, SQL, SQLite

### CNN-based Image Classification Model for Skin Disease Identification

- Developed a Convolutional Neural Network (CNN) model using TensorFlow and Keras to identify potential skin diseases from images.
- Trained the model on a custom dataset, achieving 75% accuracy with ongoing optimization to enhance

performance.

- **Technologies Used:** Python, CNN, TensorFlow, Keras, Image Classification, Custom Dataset Handling

## Certifications

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<b>Design and Analysis of Algorithms</b> – NPTEL	Oct 2024
<b>Tableau Fundamentals</b> – Salesforce	Nov 2024
<b>Switching, Routing, and Wireless Essentials</b> – Cisco Networking	Nov 2024
<b>Data Structures</b> – Coursera	Dec 11, 2023
<b>Programming in Python</b> – Meta (via Coursera)	Nov 21, 2023

## Interests

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Artificial Intelligence, Machine Learning, Computer Gaming, Badminton, Traveling

## Languages

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**English** (Fluent), **Hindi** (Native)