RAHUL GEHLOT

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| github.com/SolarisXD

Education

VIT Bhopal University   **October 2022 - July 2026**
Bachelor of Technology in Computer Science and Engineering (Specialization in AI - ML)   *Bhopal, Madhya Pradesh, India*
CGPA: 8.59/10.0

Technical Skills

Programming Languages: Python, C++, Java
Machine Learning Skills: TensorFlow, Keras, PyTorch, Scikit-learn, OpenCV, Pandas, NumPy, Matplotlib, NLTK
Web Development: HTML5, CSS3, Tailwind CSS, JavaScript, React.js, Node.js, Express.js, Django, MySQL
Developer Tools: VS Code, Google Collab, Jupyter, Git, GitHub

Projects

SwapHub
Full Stack Developer   **February 2024 - May 2024**
- Launched a marketplace empowering **500+ students** to buy, sell, and exchange, **improving campus engagement by 40%**.
- Secured transactions via **OAuth/JWT, encrypted payments, and advanced fraud prevention mechanisms** (Node.js, Python, MongoDB).
- Implemented personalized product recommendations using user activity tracking, increasing **user retention by 25%**.
- Crafted UI/UX (Figma) for **40% higher engagement**, built responsive front-end with **React, TypeScript, HTML/CSS**, and integrated **REST APIs**.

Image Captioning
Team Lead, Machine Learning Developer   **August 2023 - Novemember 2023**
- Constructed a Flask web application leveraging **OpenCV for real-time image captioning**, optimizing site speed and achieving **500+ weekly active users**.
- Initiated the creation of a bespoke **200-word vocabulary** and novel tokenization strategies to drive measurable gains in model quality and performance.
- Fine-tuned a pre-trained **CNN-RNN architecture** on custom image-caption datasets, improving caption accuracy and **reducing semantic errors by 18%**.
- **Pioneered** a Flask-based web app integrating OpenCV, supporting **700+ image uploads** and real-time generation of **1,200+ AI captions for over 500 users**.
- Enhanced accessibility for students with visual or learning challenges by **30%** through automated captioning solutions.

PyRush
Team Lead, Game Developer   **August 2023 - November 2023**
- **Engineered** Py-Rush, a 2D platformer with an intuitive Mario Maker-inspired level editor, enabling users to **create, save, and play over 100+ custom levels**, ultimately boosting **user engagement by 40%**.
- **Implemented sophisticated game mechanics**, including advanced **enemy AI**, precise camera tracking, and intricate animation systems, resulting in a **20% improvement in gameplay fluidity**.
- **Conducted significant performance optimizations**, achieving a **15% reduction in level load times** for enhanced responsiveness and user satisfaction.
- Integrated a robust **save/load** game system with 3 independent save slots, curtailing bug reports related to lost game progress by 12% during user acceptance testing.

Certifications

Blockchain Developer Certification – IBM Career Education Program

Adobe UI & UX (Graphic Design) – Issued by Ethnus via Codemithra

HTML,CSS,and Javascript for Web Developers – Issued by John Hopkins University via Coursera