Bharti

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Education

VIT Bhopal University, Bhopal, Madhya Pradesh — Apr 2022 - Present
B.Tech in Artificial intelligence and Machine Learning GPA: 9.18/10
M.S Public School, Mandi Dhanaura, Uttar Pradesh — Jul 2021
12th Standard (CBSE) Percentage: 94%
M.S Public School, Mandi Dhanaura , Uttar Pradesh — May 2019
10th Standard (CBSE) Percentage: 97%

Projects

VastraVerse | Python, Flask, HTML, CSS, JavaScript, Stable Diffusion, ControlNet, Gemini API

- Engineered an AI-driven cultural platform integrating computer vision and NLP to promote heritage awareness among modern users.
- Implemented Virtual Try-On using Stable Diffusion and ControlNet for personalized traditional attire visualization based on uploaded images.
- Built a Cultural Chatbot using Gemini API, achieving 96% response accuracy through NLP-based intent parsing and real-time query handling.
- Developed a modular Flask backend with RESTful APIs and an interactive frontend using HTML/CSS/JavaScript for seamless UX
- **Result:** A culturally immersive, AI-powered platform that revitalizes heritage awareness among modern users through virtual interaction and reliable guidance.

VizWhiz | HTML, CSS, React,js, PowerBI

- Developed a web app visualizing 7+ sorting algorithms with real-time animations and interactive controls.
- Implemented core and advanced sorts including Radix Sort and Bucket Sort for algorithmic demonstration.
- Integrated PowerBI dashboards to compare time and space complexities across algorithms.
- Optimized React rendering for smooth, high-frequency visual updates during sorting operations.

Book Recommendation System

- Achieved 85% accuracy in personalized book recommendations using collaborative filtering and cosine similarity metrics
- Gathered and processed a dataset of 27,000+ entries (ratings, book titles, authors, image URLs), ensuring data integrity through rigorous cleaning and preprocessing.
- Employed Scikit-learn's cosine_similarity to analyze user-item interactions, identifying preference patterns for targeted recommendations.
- **Secured high user satisfaction** by designing an algorithm that generates personalized top-5 book recommendations aligned with individual preferences.
- **Technologies**: Python, Pandas, Scikit-learn
- **Result**: Scalable Book Recommendation System with optimized performance for large datasets.

Skills

- **Languages**: Python, C++, Java, JavaScript, SQL
- **Frameworks & Libraries**: ReactJS, Tailwind CSS
- **Tools**: MySQL

Achievements & Certifications

- Privacy and Security in Online Social Media **(NPTEL)**
- Applied Machine Learning in Python **(Coursera)**
- Career Essentials in Generative AI (Linkedin)
- Problem Solving (Intermediate level) (Hackerrank)

Hobbies: Travelling, Music