R. Simran Nair

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Github: https://github.com/simrannair03

Education

VIT Bhopal University	Cumulative GPA: 9.33/10	Bhopal, Madhya Pradesh
Bachelor Of Technology		Expected May 2026
Major in Computer Science And Engineering		
12th Standard	CBSE Board Percentage: 94.5%	Ujjain, Madhya Pradesh
Carmel Convent Sr. Sec. School		Jul 2021
10th Standard		
Carmel Convent Sr. Sec. School	CBSE Board Percentage: 93.2%	Ujjain, Madhya Pradesh
		Jul 2019

Internship

HPE CTY Project Intern   Feb 2025-Present
(Capacity Advisor ML Project)   Github

- This project continuously monitors CPU, memory, and disk utilization of data streaming platform "Apache Kafka"
- Built an ML model that gives alerts under stress condition when a threshold is reached telling the users to take necessary actions in order to prevent system crashes.
- Used JMX Exporter and Node Exporter to collect kafka and system metrics respectively, Prometheus for scraping, and Grafana for visualization.
- My role included setting up Kakfka, Prometheus, Node Exporter, JMX exporter and Grafana on AWS EC2 instance, Simulating CPU stress and generating as well as downloading the csv file containing the required system metrics for ML model training purposes.

Projects

Crop Re Commendation System   Feb 2024-Apr 2024
(Machine Learning Project)   Github

- Developed a system providing personalized crop recommendations based on location, temperature, rainfall, pH, and humidity, autofilled via weather API.
- Implemented Decision tree algorithm, KMeans algorithm. Achieved 97% accuracy using the Random Forest Algorithm.
- In this group project, my role included creating and analyzing data to identify and handle outliers, performing data preprocessing, and data visualization.

Be My Vision   July 2024-Apr 2025
(Machine Learning Project)   Github

- Built a real-time object detection system using YOLOv8 and live camera feed to assist visually impaired users with spatial awareness through distance estimation.
- Designed a scene description pipeline using BLIP, Gemini API, FastAPI, and React, enhancing environment understanding through keyword extraction and natural language generation.
- I handled ML model research, evaluation, and fine-tuning to ensure optimal object recognition and scene interpretation performance.

Green Coffee House E-Commerce Website   July 2024-Aug 2024
(Full stack Web development Project)   Github

- Developed a Green Coffee E-Commerce Website using HTML, CSS, JavaScript, PHP, and MySQL via WAMP.
- The website includes 7 key pages: Home, Login, Registration, Orders, Products, Contact Us, Wishlist, and Cart, with backend connectivity for managing over 50 products and handling 100+ user orders.
- Implemented responsive design, secure authentication, and full-stack CRUD operations with PHP and MySQL, enabling real-time product updates, user management, and a seamless shopping experience across devices.

Extracurricular

D2C Igniters Club(Secretary)   Sep 2023 – May 2025

- Collaborated with the content team to script engaging content for VIBES'23, receiving positive feedback from participants and stakeholders
- .Promoted to club secretary based on hard work and dedication for the year Sep 2024-May 2025.

Activities

Myntra Hackerramp: WeForShe 2024   Jun 2024 – Jul 2024

- Conceptualized and pitched an innovative Gen Z fashion engagement strategy for Myntra.
- Incorporated public voting, exclusive rewards, and internship opportunities to boost user participation.
- Successfully cleared the first round of idea submission, showcasing creativity and strategic thinking in digital fashion and AI-driven design.

Additional

Technical Skills: HTML,CSS,JS, Python, Excel, C++, MySql.,Scikit-learn, Pandas, NumPy, Jupyter Notebooks, Data Preprocessing, Model Training & Evaluation

Certifications & Training:

- Data Analytics and visualization job simulation(Accenture)-June 2024
- IBM Gen AI by prolearn-May 2025