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EDUCATION

· **VIT Bhopal University, Bhopal** *2022-Present*
Bachelor of Technology in Computer Science and Engineering CGPA: 8.17
Minor in Artificial Intelligence and Machine Learning

· **Delhi Public School, Indore** *2021-2022*
12th, Central Board of Secondary Education 77.0%

PROJECTS

· **Enhancing Machine Learning Models: Market Mix Modeling** *(Team Project, VIT Bhopal)* *March* 23
An AI-driven analytical model designed to optimize marketing budget allocation using machine learning techniques.

- Developed a **Market Mix Modeling (MMM) system** using **K-Nearest Neighbors (KNN)** to analyze the impact of various marketing channels on sales.
- Conducted **data preprocessing, feature selection, and model evaluation**, enhancing model accuracy by **20% over baseline methods**..
- Researched and compared **traditional statistical methods vs. machine learning approaches** to improve business outcomes.

Technologies: Python, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Machine Learning (KNN, Linear Regression), Data Visualization**.**

· **PRMS (Ongoing)** *Dec* 24- present
A secure CRUD healthcare platform for managing patient records, doctor consultations, and medicine purchases.

- Developed a patient record management system with secure login and unique ID-based access, enabling doctors to view records temporarily without storing sensitive data.
- Implemented OCR-based medical report extraction, allowing patients to upload and digitize prescriptions, improving accessibility and reducing manual data entry error by 80%.
- Integrated an AI chatbot using Gemini API to assist users in finding nearby doctors and answering basic health queries, handling 300+ queries monthly.

Technologies: React.Js, Python, Rest API, Firebase, OCR, Gemini API, SQLite, HTML/CSS, TypeScript

TECHNICAL SKILLS

Programming Languages: Java, Python, JavaScript
Web Technologies: FastAPI, Rest API, HTML, CSS, React.Js, Typescript, Tailwind, Node.Js, SpringBoot, JPA, Hibernate, Microservices, Flask, Tailwind
Databases: MongoDB, MySQL, Firebase
DevOps Tools: AWS, GCP ,Git, GitHub, Cloudflare, Docker, Jenkins, Terraform, Postman
Machine Learning: TensorFlow, PyTorch, OpenCV, NumPy, Pandas, Scikit-learn, Flask, Cmake, CNN, NLP

Research Projects:

Automated Plant Disease Detection Using Computer Vision *(Research Project, VIT Bhopal)*

- Developed a **CNN-based model** using **PlantVillage dataset**, achieving **high-accuracy classification of plant diseases**.
- Conducted **comparative analysis with traditional detection methods**, demonstrating **superior accuracy and efficiency**.
- Conducted simulations demonstrating improved task offloading efficiency compared to traditional methods.
- Explored reinforcement learning models for real-time decision-making in dynamic network environments.

CERTIFICATES:

– **John Hopkins University:** HTML, CSS, and Javascript for Web Developers
– **Udemy:** Artificial Intelligence A-Z 2025: Agentic AI, Gen AI, and RL