Dharmbir Singh

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EDUCATION

BTech in Computer Science

Minor in Artificial intelligence and Machine Learning • VIT Bhopal University • Bhopal, Madhya Pradesh • May 2026 • 8.45/10

PROJECTS

Integrating Machine Learning for Multiple Disease Prediction

- Developed a model to predict several disease like (Diabetes, Heart Disease and Parkinson's) using Machine Learning.
- To calculate the accuracy and provide the findings, machine learning methods like Support Vector Classifier and Logistic Regression were employed. These approaches effectively classify and predict disease outcomes, leveraging their unique strengths in pattern recognition and data analysis.
- Using the Support Vector Classifier (SVC), key features were identified as the most significant contributors to disease prediction. The SVC model was trained on historical medical data, enabling it to recognize complex patterns and relationships.
- Once trained, the model classified new patient data to determine their risk levels based on the learned patterns. Similarly, Logistic Regression was utilized to analyze the probability of disease occurrence by fitting the medical data to a logistic curve.
- Once trained, the model classified new patient data to determine their risk levels based on the learned patterns. Similarly, Logistic Regression was utilized to analyze the probability of disease occurrence by fitting the medical data to a logistic curve.
- Prediction accuracy of the model is 85%.

To-Do List App

Developed a **To-Do List Application** using **HTML, CSS, JavaScript, and Electron.js**, designed for efficient task management and enhanced productivity. Integrated an **AI chatbot reminder** that assists users by providing real-time updates on upcoming deadlines and answering task-related queries. Implemented core functionalities such as **adding, editing, deleting, and marking tasks as completed**, along with **automatic deadline tracking and notifications** to keep users on schedule. Designed a **responsive and user-friendly interface** for a seamless experience across different screen sizes. Utilized **local storage** to ensure data persistence, allowing users to retain their tasks even after closing the application. Additionally, packaged the project into an **installable desktop software** using Electron.js, making it easily accessible across various operating systems.

EXPERIENCE

Business Analytic Intern

QLIK Business Analytics Virtual Internship Program • April 2024-June 2024

- Spearheaded a data-driven continuous improvement initiative, leveraging Qlik's cloud platform to optimize prediction accuracy and computational efficiency for accident prediction models
- Developed and implemented a comprehensive suite of 15+ visualizations, including bar charts, line graphs, scatter plots, and heatmaps, to analyze accident trends across India involving motor vehicles and pedestrian.
- Uncovered critical insights into accident patterns, hotspots, and contributing factors through interactive dashboards. Effectively communicated findings to stakeholders, enabling data-informed decisions to enhance road safety measures.

Indian Space Lab Intern

Indian Space Lab Winter Internship Program • December 2024-January 2025

Winter Internship Techincal Training Program • December 2024-January 2025 • Completed virtual training in drone building, functionality, and real-world applications, gaining hands-on experience in designing and developing drone-based systems. • Designed and developed EcoDrone: Intelligent Waste Detection and Disposal System, a prototype drone that detects and collects garbage using a claw mechanism. • Studied drone aerodynamics, integrated sensors, and implemented autonomous operations. Enhanced problem-solving skills by developing an innovative waste management solution.

President

Hindi Club VITB • July 2024 – present

- Managed a team of 90 students, fostering a collaborative and productive work environment.
- Organized and coordinated events such as cultural festivals, guest lectures, and language workshops, attracting over 200 participants.
- Enhanced the club's visibility through social media campaigns and promotional activities, boosting event attendance by 50%.

CERTIFICATIONS

Privacy and Security in Online Social Media

May 2024

Applied Machine Learning Using Python

December 2024

SKILLS

Language: Python, Java, SQL

Development Tools: Jupyter Notebook, Intellij, GitHub, GeeksforGeeks