Sinchana Salimath |9482286178 | sinchanaasal@gmail.com | LinkedIn | GitHub|

"Versatile Computer Science student with a strong foundation in data analysis, machine learning, and full-stack development, skilled in applying technical and analytical solutions to real-world problems."

CORE SKILLS

- **Programming Languages:** Python, Java, C, C++
- **Microsoft digital tools**: Excel, teams and Powerpoint
- **Machine Learning:** Scikit-Learn, NumPy, Pandas
- **Data Visualization:** Matplotlib, Seaborn, Plotly, Power BI, Tableau
- **Web Development:** HTML, CSS, JavaScript, EJS, Bootstrap, MERN Stack
- **Computer Vision:** OpenCV, SSIM
- **Modeling & Evaluation:** SVM, Random Forest, K-Means Clustering
- **Deployment:** Streamlit, GitHub

MAJOR PROJECTS

Movie Recommendation System | GitHub Repo|
Developed a personalized movie recommendation system using **Python**, implementing **collaborative filtering** and **K-Means clustering** to deliver accurate suggestions. Leveraged **Scikit-Learn** and **NumPy** for efficient data analysis and model performance.

To-Do List Application | GitHub Repo|
Built a responsive task management application using **Embedded JavaScript (EJS)**, **Node.js**, and **Express.js**. Integrated dynamic **CRUD operations** for seamless task management and enhanced user experience.

Food Delivery Webpage | GitHub Repo|
Designed and developed a mobile-responsive food delivery platform using **HTML**, **CSS**, **Bootstrap**, and **jQuery**. Enhanced user experience with smooth scrolling, improved layout, and **responsive UI design**.

Weather App | GitHub Repo|
Built a real-time weather application using **HTML**, **CSS**, and **REST API integration**. Delivered accurate weather updates for Hubli, India, with an intuitive user interface and **error-handling mechanisms**.

Heart Disease Prediction | GitHub Repo|
Developed a web-based **machine learning** application using **Streamlit** for heart disease risk prediction. Implemented **Random Forest** and **SVM models** with data visualization using **Matplotlib** and **Seaborn**. Applied **joblib** for model serialization and deployment.

Connected Vehicle Data Analysis | GitHub Repo|
Designed a real-time vehicle data analysis system using **IoT sensor simulations**. Applied **SVM** and **Random Forest** models to predict traffic patterns and ensure vehicle safety. Built efficient **data pipelines** using **Python** and visualized insights using **Plotly** and **Matplotlib**. Conducted model evaluation using **accuracy**, **precision**, **recall**, and **F1-score**.

PAN Card Detection | GitHub Repo|
Developed a **computer vision** application using **OpenCV** and **Python** to detect PAN card tampering. Implemented **Structural Similarity Index (SSIM)** and **contour detection** for discrepancy identification. Built an automated verification system providing instant results with visualized comparisons.

EDUCATION

Bachelor's in Computer Applications **2022-2025**
KLE Technological University, Hubli