Vandana Cherukuri

Contact: +91 9689092679
Email:vandanacharkuri@gmail.com
LinkedIn: :https://www.linkedin.com/in/vandana-cherukuri-3b4421258
GitHub: https://github.com/Vandana-cherukuri
Location: Pune , Maharashtra, India

Summary

Curious and driven B.Tech student with a strong foundation in data analytics, field research, and problem-solving. Experienced in real-time data collection, analysis, and visualization using modern tools like Python, Pandas, and PowerBI. Enthusiastic about using technology to design solutions that address real-world, community-centric challenges.

Projects

Diabetes Prediction Using Machine Learning

- .Developed a predictive model to classify diabetes outcomes using supervised learning techniques.
- Preprocessed data, explored correlations, and visualized relationships using Python libraries like **Project Link**
- Visualized data using Python libraries like Pandas,Seaborn , and Matplotlib.
- Implemented multiple classifiers,including ,K-Nearest Neighbors (KNN) ,Neural Network,Decision Tree Achieved model performance:
- Training accuracy: up to 83%
- Testing accuracy: 73%
- Utilized Scikit-learn for model development and evaluation.
- Focused on feature engineering and optimization for improved accuracy.

TechStacks used :streamlit,streamlit-lottie,scikit-learn,numpy,joblibgit

K-means clustering algorithm to group customers of a retail store based on their purchase history

- Implemented clustering techniques to group retail store customers based on purchase history. **Project link**
- Used K-Means and Hierarchical Clustering for pattern recognition and customer segmentation.
- Analyzed large datasets to enhance data-driven decision-making.
- Identified key customer groupings to improve strategic planning and business insights.
- Utilized Python libraries, including:
- Scikit-learn for preprocessing and clustering
- Matplotlib for result visualization
- Applied insights to optimize customer understanding and business strategies.

TechStacks used: streamlit,pandas,numpy,matplotlib,scikit-learn

House price prediction model

- Regression. With features like 'GrLivArea', 'BedroomAbvGr', and 'FullBath'.
- the model predicts housing prices with an Rsquared value of 0.63. **Project Link**
- Mean Squared Error: 2086426667.25
- Visualization: A scatter plot showing the relationship between real prices and estimated

TechStacks used:streamlit,streamlit-lottie,pandas,scikit-learn,joblib

Portfolio website

- Showcases skills, projects, and contact information in a clean, user-friendly layout.
- Implemented smooth scrolling, responsive navbar, and interactive contact form. **Project Link**
- Designed with a mobile-first approach for cross-device compatibility.

TechStacks used: HTML,CSS,JavaScript,Bootstrap

Skillset

Programming Languages: Python, C, C++, Java, JavaScript ,React,HTML5,CSS3

- **Databases**: MySQL
- **Machine Learning Tool:** Supervised and Unsupervised Learning, Model Training, and Evaluation
- **Python Libraries:** Numpy, Pandas, Seaborn, Matplotlib,.
- **Other Tools:** Git , Github, Streamlit.
- **Software \Simulation:** Keil, Proteus, Multisim, MATLAB, VHDL.
- **Soft Skills:** Team Management, Collaboration, Communication, Presentation, Analytical Thinking, Problem-Solving

Education

- Bharati Vidyapeeth COE, Pune ~ BTECH 2022-26

Extracurricular Activities

- Member, Google Developer Students Club (Aug 2023 - Aug 2024)
- Volunteered at Old Age Home & Tree Plantation Drives