

# MAKINENI BHANU KAVITHA

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## SUMMARY

Passionate data science enthusiast skilled in statistical analysis, machine learning, and data visualization using Python, R, and SQL. Experienced in building data-driven solutions to support smarter business decisions.

## PROJECT

### House Price Prediction Web App

April 2025

- Developed a Streamlit-based web app to predict California house prices using a Random Forest Regressor trained on the California Housing dataset.
- Performed feature engineering (bedrooms, washrooms, balconies, sqft, house age, location) and scaling for accurate predictions.
- Integrated interactive Plotly visualizations to explore price trends by square footage, bedrooms, and location in real time.

### Uber ride analysis

November 2024

- Cleaned and preprocessed 1,156 Uber ride records, engineered 4+ time-based features, and visualized trends across ride purposes and categories to enhance temporal and demand analysis.
- Detected 10+ mileage outliers and revealed distance trends using heatmaps, boxplots, and histograms for deeper travel behavior insights.

### Credit card fraud detection

October 2024

- Performed EDA, feature selection, and cleaning on 50,000+ financial transactions, addressing a 90:10 class imbalance to boost fraud recall by 18%.
- Built and optimized a Random Forest model, achieving 92% accuracy and cutting false positives by 12% for more reliable fraud detection.

### Heart disease classification

August 2024

- Performed EDA, feature engineering, and visualization on 304 patient records, building classification models with Python, Pandas, and Seaborn.
- Achieved 100% training accuracy with Random Forest and Decision Tree, identifying chest pain type, cholesterol, and age as key heart disease risk factors.

## EDUCATION

### B.Tech Computer science (specialisation in Data science)

Presidency university • Bangalore • 2022-2026

• Current CGPA: 8.39

### Senior Secondary (XII)

Narayana PU College • Bangalore • 2020-2022 • 83.16%

## CERTIFICATIONS

Data Analysis with python

IBM • September 2023

Machine Learning with python

IBM • October 2023

Applied Data science capstone

IBM • October 2023

Databases and SQL for Data Science with Python

IBM • September 2023

## SKILLS

- **Programming Languages:** Python, Java, SQL, C
- **Data Science & Analytics:** Data Analysis, Data Visualization, Machine Learning
- **Tools & Libraries:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, Jupyter Notebook
- **Soft Skills:** Time Management, Communication, Critical Thinking, Problem Solving