

# VENKATA SUSHMA PERLA

Vijayawada, Andhra Pradesh

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## Education

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**SRM University, AP**

B.Sc. (Hons.) in Computer Science

Amaravati, India

Aug 2023–Present

- CGPA: 8.37 / 10.0
- Relevant Coursework: Data Structures, Design and Analysis of Algorithms, Database Management Systems

## Skills Summary

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- **Programming Languages:** C, C++, Java, Python, JavaScript
- **Web Technologies:** HTML, CSS, JavaScript, React, Node.js, Express.js
- **Database:** MySQL, MongoDB
- **Tools:** Git, GitHub

## Projects

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**Breast Cancer Prediction Using Machine Learning** [GitHub](#)

- Built a classification model to predict breast cancer using Naive Bayes.
- Applied data standardization and Principal Component Analysis (PCA).
- Evaluated model performance using the Confusion Matrix.
- Used K-Fold Cross Validation to improve reliability.
- Analysed ROC Curve and calculated AUC score.
- Performed covariance and correlation analysis using Pandas.
- Visualised results using Matplotlib.

**Spice Stories – Recipe Management Website** [GitHub](#)

- Developed a dynamic recipe management website using React.js and Bootstrap.
- Implemented features to browse recipes by categories such as South Indian, North Indian, Chinese, Western, and Desserts.
- Enabled Create, Read, Update, and Delete (CRUD) operations for recipes using JSON Server.
- Designed responsive UI components and implemented real-time search functionality.
- Improved user experience through structured components and seamless navigation.

## Extracurricular Activities

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- **Campus Ambassador**, SRM University AP Sep 2024– Oct 2025
- **Coding Club** Member, SRM University AP Aug 2024–Present