

# GOWRI SHAJU

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## PROFILE

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Dedicated Integrated MSc Mathematics graduate with a minor in Data Science, equipped with strong analytical and problem-solving skills. Proficient in Python and Statistics and passionate about transforming data into meaningful insights to support decision making.

## EDUCATION

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- **INTEGRATED MSC MATHEMATICS WITH MINOR IN DATA SCIENCE** 2020 – 2025  
Amrita Vishwa Vidyapeetham, Amritapuri Campus, Kollam, Kerala CGPA – 9.36/10  
Campus Second Rank

## PROJECTS

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### Breast Cancer Detection in Histopathology images using Machine Learning Models with Optimized Features

- Built machine learning models on the Wisconsin dataset for tumor classification.
- Applied PSO, ACO, GA, DE, and WOA for feature optimization to boost performance.
- Achieved 98.24% accuracy using Logistic Regression with GA-optimized features.

Tools Used: *Python, Scikit-learn, NumPy, Pandas, Matplotlib, Evolutionary Optimization Algorithms*

### Predicting the obsolescence time of smartphones using hardware and market features using Machine Learning.

- Created a synthetic dataset of 80,000 smartphones with hardware & market-based features.
- Trained regression and classification models; SVM achieved 83% accuracy.
- Built a Gradio web interface for real-time smartphone longevity prediction.

Tools Used: *Python, NumPy, Pandas, Scikit-learn, Gradio, Matplotlib*

## SKILLS

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- **Programming Languages :** Python, SQL
- **Data Handling :** Data Cleaning, EDA, Feature Scaling, Data Pre-processing
- **Statistical Inference :** Hypothesis testing, Probability
- **Machine Learning :** Regression, Classification, Clustering, Feature Engineering, Statistical Modelling, Cross-Validation, Model Evaluation, Predictive Analytics
- **Databases :** MySQL, MongoDB Basics
- **Frameworks & Libraries :** Sci-py, Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn

## CERTIFICATIONS

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- **Python Programming Short Course** January 2022 - February 2022  
MyCaptain
- **Data Analytics with Python** May 2023 – June 2023  
MyCaptain

## PUBLICATION

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### ***Optimized Feature-Based Machine Learning Models for Breast Cancer Detection***

Conference: ICT4SD 2025

Series: Lecture Notes in Networks and Systems, Vol. 1650

Publisher: Springer, Cham

Available: [https://doi.org/10.1007/978-3-032-06677-0\\_36](https://doi.org/10.1007/978-3-032-06677-0_36)

## LANGUAGES

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- English
- Malayalam
- Hindi