

GOWRI SHAJU

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PROFILE

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

- **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

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

- **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

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

PUBLICATION

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

LANGUAGES

- English
- Malayalam
- Hindi