

K MUKIL JANARDHANAN

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EDUCATION

M.Sc Decision and Computing Sciences,
Coimbatore Institute of Technology - 5th semester

2023 – present

SKILLS

Programming Languages: Python, C, Java, R.

Developer Tools: Jupyter Notebook, MS Excel, VS Code

Soft Skills: Communication, Problem Solving, Team Collaborations, Logical Thinking

INTERESTS

- Machine Learning and AI
- Gen AI
- Software and Web Development
- Database Management
- Data visulization

PROJECTS

SMS Spam Classification

Technologies: Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, TF-IDF Vectorization

- Built a machine learning model to classify SMS messages as **ham (legitimate)** or **spam** using **TF-IDF vectorization** for text feature extraction.
- Trained and evaluated classification models on the **SMS Spam Collection Dataset** (5,574 messages) with metrics like accuracy, precision, recall, and F1-score.
- Conducted **data preprocessing** (label encoding, text cleaning, stopword removal) and **exploratory data analysis** with visualization of spam/ham distribution.
- Achieved high classification performance, demonstrating effective spam detection capabilities.

Sentiment Analysis

Technologies: Python, Pandas, NumPy, NLTK, Scikit-learn, Matplotlib, Seaborn, TF-IDF Vectorization

- Built a **sentiment analysis model** to classify customer reviews from the **Women's E-Commerce Clothing Reviews Dataset** (23,000+ entries) into **positive** or **negative** sentiments.
- Conducted **exploratory data analysis (EDA)** to understand review distribution, ratings, and recommendation trends.
- Performed **text preprocessing** (lowercasing, punctuation removal, stopword removal) and **sentiment labeling** based on review ratings.
- Engineered features using **TF-IDF vectorization**, leading to improved classification performance.
- Trained and evaluated **Logistic Regression, Multinomial Naive Bayes, and Random Forest** models, achieving high accuracy and F1 scores.

HACKATHONS

- Startup Ideathon - Volunteer
- Google Hackathon 2025 - Participation
- Melinia Hackathon 2k24 - Participation

CERTIFICATES

NPTEL

Python for Data Science

Cloud Computing

Swayam

Database Management System