

# Lingesh R

## Data Scientist | Python Developer

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🌐 LINGESH R

🔄 Lingesh-7

🔗 Website

## Skills

**Languages:** Python, C

**ML & AI:** Scikit-Learn, TensorFlow, CNN, Machine Learning Algorithms, GridSearchCV

**Data Science:** Pandas, NumPy, Seaborn, Plotly, Matplotlib, MySQL

**NLP & LLMs:** LangChain, HuggingFace, Word2Vec, FastText, spaCy

**Web Development:** Flask, HTML, CSS, Bootstrap

**Web Scraping & Automation:** Selenium, BeautifulSoup

**Deployment:** FastAPI, Streamlit, Git, GitHub, Postman

## Education

### B.Tech. Electronics and Communication Engineering

Sri Manakula Vinayagar Engineering College

2023 – present | Puducherry

CGPA: 8.5

## Profile

Curious and driven Data Science & AI enthusiast with strong foundations in Python, machine learning, and web development. Adept at building end-to-end intelligent systems and deploying ML models using Flask and FastAPI. Actively learning LLMs and passionate about applying AI for impactful real-world solutions.

## Projects

### Waste Classification Using Deep Learning

- Trained a CNN on **2,528 images** to classify waste into **recyclable/non-recyclable** classes.
- Achieved **98% accuracy** using data augmentation, Softmax, and Adam optimizer.
- Deployed model using FastAPI for real-time image classification via Postman.

### Image Classification Using Machine Learning

- Used Haar Cascades and Wavelet Transform for face feature extraction.
- Achieved **76% accuracy** using SVM + GridSearchCV.
- Deployed with Flask for real-time predictions via browser.

### Real Estate Prediction Using ML

- Built regression model to predict house prices using location and size features.
- Applied feature engineering (OHE, normalization), achieved **82% accuracy**.
- Deployed using Flask API.

### AI Powered News Research Tool

- Developed a tool to summarize news from URLs using LangChain & Vector Stores.
- Used HuggingFace embeddings, RAG, RetrievalQA, hosted on Streamlit.

### My Blog Website

- Created a Flask-based full-stack blog site with authentication, post creation, and comment features.
- Frontend: HTML, CSS, Bootstrap; Backend: Python + Flask.

### Twitter News Bot For Puducherry

- Automated scraping of top headlines from The Hindu's Puducherry news section using Selenium.
- Used Selenium to perform Twitter login and post news updates automatically without external APIs.
- Scheduled regular bot execution to deliver timely news tweets via full browser automation.