

Swathi K R

📍 Erode

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Career Objective

An innovative engineer focused on continuous growth, with expertise in Machine Learning for real-world problem-solving. Known for analytical thinking, consistency, and effective communication with a commitment to teamwork and leadership.

Skills & Tools

- **Technical Skills:** Data Analyst, Python ,SQL , Machine Learning , Data Structure And Algorithm, Object-Oriented Programming , HTML ,CSS
- **Tools:** Power BI , MS Office

Languages

English, Tamil,Hindi

University Projects

House Price Prediction Using Deep Learning

Key Skills: LSTM (Long Short-Term Memory) Sentence Embeddings, Natural Language Processing (NLP), Python (TensorFlow, Scikit-learn ,Pandas, NumPy), Data Preprocessing & Feature Engineering, SQL, Data Analysis & Visualization, Exploratory Data Analysis (EDA) Real Estate Domain Knowledge

- Developed a predictive model utilizing LSTM and sentence embedding techniques to accurately forecast housing prices,supporting real estate agents and buyers in making informed financial decisions.
- Analyzed a comprehensive dataset with features including bedrooms, bathrooms, square footage, and location, with house price as the target variable.
- Highlighted key factors influencing prices, such as physical condition, design concepts, and location, demonstrating how these impact the housing market.
- Showcased the model's effectiveness in providing insights that facilitate decision-making for buyers, sellers, and real estate professionals, enhancing optimal pricing strategies and market timing.

MINI PROJECT - Smart Waste Management using IOT

Key Skills:Internet of Things (IoT),Python Programming,Sensors (Ultrasonic, IR)

- Developed an IoT-enabled smart bin system with OLED displays and embedded sensors for real-time garbage level monitoring.
- Created a microcontroller platform to promptly notify authorities about bin status, improving waste management efficiency.
- Reduced health risks and environmental hazards by minimizing unhygienic waste accumulation and ensuring timely waste disposal.

Awards/ Achievements/ Certifications.

- NPTEL certification in Principles of Management with Elite+Silver[82%] in the final examination.
- HTML and Java Certification Offered by IIT Bombay secured above 70%.
- Machine Learning Course completions Certificate offered by CodSoft

Education

Velalar College of Engineering and Technology

- Bachelor's Degree in Computer Science Engineering | CGPA: 8.72

(June 2020 - May 2024)

KSR Akshara Academy (CBSE)

- Senior Secondary Examination (Percentage : 73.4)

(June 2019 - May 2020)

Vidhya Vikas International School (CBSE)

- Secondary Examination (Percentage : 62.4)

(June 2017 - May 2018)