Kalasani Lingaswamy

## [Linkedin:](mailto:Linkedin:Mahesh-Kuntigorla-8639271854) kalasani-lingaswamy-11948425 Email:kalsanilingaswamy@gmail.com

[Github: https://github.com/Lingaswamy12221887x](Github:%20https://github.com/Lingaswamy12221887x) Mobile: +91-6305038219

# Skills

* **Languages**: C++, Python, C, Data Structures, and Algorithms
* **Frameworks**: HTML and CSS
* **Tools/Platforms**: MySQL
* **Soft Skills**: Creative Thinking, Problem-Solving Skills, Team Player, Time Management

# Summer Training

**Geeks for Geeks | Data Structures and Algorithms - Self-Paced May 2024**

* Completed self-paced course on core **Data Structures** and **Algorithms** from **Geeks for Geeks**.
* Practiced concepts like **Sorting**, **Recursion**, **Dynamic Programming**, and **Graph algorithms**.
* Enhanced **problem-solving skills** through hands-on **coding exercises** and **competitive programming**.

# Projects

#### Classification Of Images Using Transfer Learning April 2025

#### **Developed an image classification model using Transfer Learning with pre-trained CNN architecture, ResNet50.**

#### **Applied feature extraction, fine-tuning, and data augmentation for improved model accuracy and generalization.**

#### **Evaluated performance using Confusion Matrix, Precision, Recall, and F1-Score metrics.**

#### **Strengthened skills in Deep Learning, Computer Vision, and GPU-accelerated training for efficient processing.**

#### **Tech Used: Python, Matplotlib**

#### Beijing Multi-Site Air Quality Index November 2023

#### Analyzed multi-site air quality data from Beijing using Python, Pandas, and NumPy for data preprocessing and cleaning.

#### Built predictive models using Machine Learning algorithms like Linear Regression, Random Forest, and XGBoost.

#### Applied feature engineering, time-series analysis, and correlation analysis to improve model performance and insights.

#### Gained hands-on experience in environmental data analytics, air quality forecasting, and data-driven decision making.

#### Tech Used: Python, Matplotlib

#### Online Real Estate Website: September 2023

#### Developed a dynamic web platform for listing and searching real estate properties.

#### Implemented user authentication, property search filters, and interactive maps.

#### Designed a responsive UI for seamless browsing on desktop and mobile devices.

#### Integrated database to manage property listings and user interactions.

#### Tech Used: HTML, CSS

# Certificates

## Programming Fundamentals Of Kotlin. **November 2024**

## Data Structures & Algorithms- Self-Paced (C++) by GFG. **May 2024**

* Generative Artificial Intelligence by Coursera. **Jan 2024**
* Prompt Engineering for ChatGPT by Coursera. **Jan 2024**

# Achievements

#### Secured a Silver medal in the School October 2019

I secured a silver medal in the District-wise Quiz Competition, competing against top players from multiple schools.

# Education

**Lovely Professional University** Punjab, India

### Bachelor of Technology - Computer Science and Engineering; **CGPA: 6.90** Since August 2022

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**Telangana Model School & Jr College** Nalgonda, Telangana

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### Intermediate; **Percentage: 82.9%** July 2020- March 2022

**Telangana Model School & Jr College** Nalgonda, Telangana

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### SSC Board; **Percentage: 100%** March 2020