

# SK Eswar Sudhan

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## OBJECTIVE

An emerging Computer Science Engineer, specializing in Artificial Intelligence and Machine Learning , proficient in DBMS, Data Structures.Exhibiting a natural ability for leadership and a firm commitment to accountability and having the capability to navigate complex problems while operating effectively in both team-oriented and independent environments.Seeking a role in your esteemed firm, to contribute and grow with the organization, continuously enhancing my domain-related knowledge in the long term.

## EDUCATION

### B tech in Computer Science and Engineering (Artificial Intelligence)

2020-2024

School of Computing, Amrita Vishwa Vidyapeetham , Coimbatore

CGPA : 7.88/10

### AISSE (11<sup>th</sup> - 12<sup>th</sup> std)

2018-2020

Subjects : Physics, Chemistry, Mathematics, Computer Science

Maharishi International Residential School , CBSE, Chennai

Percentage : 93.4%

### AISSE (10<sup>th</sup> std)

2018

St Joan Of Arc International School , CBSE, Trichy

Percentage : 92%

## INTERNSHIP

### FocusR Consultancy and Technology - Chennai

Feb 2024 - Present

Python and AI developer

- Building a Large Language Model (LLM)-powered hiring application using React.js for frontend.Integrated LLM technology for advanced candidate shortlisting within the Django backend.

## TECHNICAL SKILLS

**Languages** : Python, SQL, Matlab,Java

**Tools & Libraries** : Git,Matplotlib,TensorFlow, scikit-learn, Numpy, Pandas, OpenCV

**Database & Web** : PostgreSQL, HTML, CSS, Reactjs,Django

**Cloud&Officeware** AWS, Office 365

## TECHNICAL INTERESTS

- DBMS, Data Science, Deep Learning, Image Processing

## PUBLICATION

### Enhancing Chatbot Interaction with Emotion Recognition: Emobot

4th Conference of Intelligent Systems (CIS-2023)

- Built a novel chatbot using Langchain framework, Streamlit and integrated it with emotion detector that uses Resnet50 to provide emotional intelligence .

### Enhancing Telugu News Understanding: Comparative Study of ML Algorithms for Category Prediction.

Association of Computational Linguistic's DravidianLangTech-2023

- Performed a comparative study on ML algorithms like Naive Bayes, SVM, Random Forest, KNN on category classification using features extracted by N-gram, tf-idf, Word2vecCBOW, Word2vecSkipGram on news article .

## PROJECTS

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### Covid 19 forecasting using DMD and comparative analysis with other forecasting models

Dec 2022 - Jan 2023

- **Objective:** To forecast covid 19 confirmed cases in States of USA using DMD and comparing with forecasting models like SARIMAX, ARIMA, ARMA on time series data
- **Tools/Technologies used:** MATLAB, Python(Pandas, Matplotlib, Statsmodel)
- **Outcome:** Achieved Root Mean Square Value of 969 cases using DMD and demonstrated how better DMD works comparing to other models.

### End to end CNN based bacteria classifier Web application

Dec 2023 - Jan 2024

- **Objective:** Developed a CNN-based bacteria classifier web application, allowing users to upload bacterial images and receive classification results. Utilized React.js for frontend development, Flask for backend, and integrated ResNet50 model for image classification.
- **Tools/Technologies used:** React.js, Flask, Python, HTML, CSS, TensorFlow.
- **Outcome:** Successfully delivered a user-friendly web application enabling classification of bacterial images, emphasizing seamless integration of React.js and Flask.

### Enhanced Chatbot with Facial Emotion Recognition

May 2023 - June 2023

- **Objective:** To build a chatbot that uses facial emotions of the user to understand the level of satisfaction of the user on its answer to his or her question and re-answer based on it.
- **Tools/Technologies used:** Langchain, Tensorflow, OpenCV, Streamlit
- **Outcome:** The prompts were customised based on facial expression of the user and fed to LLM using Langchain and chatbots were able to reframe the answer

### IRC Server integrated with motion detection system

May 2022 - Jun 2022

- **Objective:** To make a chatting platform in a local subnet that is linked with local cctv which updates security threats using Raspberry Pi.
- **Tools/Technologies used:** Python, Mirc, Raspberry Pi
- **Outcome:** Implemented Chatting platform that can have users who are in the local subnet and get security threat notifications in the channel from CCTV cameras that are connected in local subnet.

### Remote sensing image dehazing

Dec 2022 - Jan 2023

- **Objective:** To Dehaze Remote Sensing Image with haze to a saturated image using Dark Channel Prior(DCP) and quantify Haze.
- **Tools/Techniques used:** Python(Numpy, Matplotlib), Photoshop.
- **Outcome:** Hazed a normal remote sensing image using random masks and implementing Dehazing algorithm to dehaze it and quantify amount of Haze removed using euclidian distance.

## CERTIFICATIONS

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- AWS Cloud Essentials Badge

## ACHIEVEMENTS AND CONTRIBUTION

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- Chief Coordinator of Art Department, Gokulastami Cultural Fest(2022 and 2023)
- GATE 2024 (Data Science and Artificial Intelligence) qualified

## LANGUAGE PROFICIENCY

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English (Professional), Tamil (Native)

## PERSONAL DETAILS

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Date of Birth : 07/11/2002

Hobbies : Photography, Painting, Football

Contact Address : 2/1 Mahilambo Salai, Annamalai Nagar, Trichy-620018

Place : Coimbatore

Date: 20/03/2024