

AVANTHIKA SURESH

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SUMMARY

Enthusiastic AI/ML engineer with a solid foundation in natural language processing, computer vision, and deep learning methodologies. Competent with a variety of machine learning algorithms, and various programming languages. Outstanding research, problem-solving, and teamwork skills. Looking for a challenging position where I can create innovative AI solutions as well as increase my domain knowledge.

TECHNICAL SKILLS

Programming Languages: Python, C++, C, C Sharp, SQL

Deep Learning Frameworks: TensorFlow, Keras, PyTorch (basics), OpenCV, NumPy, Pandas, Scikit-learn

Techniques: CRNN, Emotion Recognition, Face Detection

PROJECTS

1. Music Recommendation System based on Face Emotion Recognition using Convolution Recurrent Neural Network (CRNN)

- Built a model using CNN and LSTM (CRNN) to detect facial emotions from images.
- Used the FER-2023 dataset for training and testing and Achieved 85 percentage accuracy in recognizing emotions.
- Combined both spatial (CNN) and temporal (LSTM) features for better accuracy.
- Suggested Music based on detected emotions to create a personalized music experience.
- Presented this project as a paper at an international student conference in December 2023.

2. Gestovox Interface: A Gesture And Voice-Based Human-Computer Interaction System

- Created a system to control computers using hand gestures and voice commands.
- Used MediaPipe to track real-time hand gestures via webcam.
- Enabled virtual keyboard and mouse control without touching the device and added gesture-based volume control and a digital drawing tool.
- Built gesture-controlled and voice-controlled games (Car Racing, Snake).

3. Secure Loom: (ongoing project)

- Developing a security system that tracks audio, video, and GPS in real time.
- Uses GPS to continuously monitor the user's location.
- Records audio and video to detect surrounding threats or unusual sounds.
- Sends alerts to emergency contacts or services if danger is detected.
- Detects suspicious sounds like loud noises or distress signals.
- Strengthened skills in GPS integration, audio analysis, and real-time tracking.

EXPERIENCE

Front-End and Back-End Intern

GoWatr PvtLtd

June 2023 – Aug 2023

Chennai, India

- Involved in Front-End and Back-End Development
- Data Processing
- Data Analytics

Machine Learning Intern

Corizo

Oct 2023 – Novemeber 2023

Remote Internship

- Worked on Machine Learning algorithms
- Stock Market Predictions
- Wine Quality Predictions

EDUCATION

St Johns English School and Junior College

10th std: 96.8 percentage

Chennai , Tamil Nadu

May 2020

St Johns English School and Junior College

12th std: 90.1 percentage

Chennai , Tamil Nadu

June 2022

Sathyabama Institute of Science and Technology

Chennai , Tamil Nadu

- 1st sem: 9.17 CGPA
- 2nd sem: 9.12 CGPA
- 3rd sem: 9.20 CGPA
- 4th sem: 9.18 CGPA
- 5th sem: 9.30 CGPA

SOFT SKILLS

- Leadership Qualities
- Communication Skills
- Time Management
- Critical Thinking
- Organizational Skills
- Problem Solving Skills

SPOKEN LANGUAGES

- English
- Hindi
- Tamil
- Malayalam