

SAADHIKA E

STUDENT

Contact



Phone

+91 9787950502



Email

saadhikaelumalai3008@gmail.com



Address

Chennai



LinkedIn

<https://www.linkedin.com/in/saadhika-elumalai-985320311/>

Education

- 2021-2025

Bachelor of Technology in Computer Science and Engineering (Artificial Intelligence and Data Analytics)

Sri Ramachandra Institute of Higher Education and Research, Porur, Chennai

- 12th Grade

DAV BHEL School(CBSE), Ranipet

Languages

- English
- Telugu
- Tamil
- Hindi

Hard Skills

- Machine Learning
- Deep Learning
- Data Analytics(SQL, Tableau)
- Frontend Development (HTML, CSS, JavaScript)

Driven and resourceful fourth-year B.Tech student majoring in Computer Science and Engineering with a specialization in Artificial Intelligence and Data Analytics at Sri Ramachandra Institute of Higher Education and Research. While deeply passionate about applying machine learning, deep learning, and computer vision techniques to solve real-world problems, I am equally intrigued by the fields of data and business analytics. My projects reflect a blend of technical proficiency, analytical mindset, and creative problem-solving. I aspire to leverage my skills in AI, data analytics, and business insights to contribute to impactful innovations while fostering continuous learning and collaboration.

Projects

● IoT-based Assistive Technology for Visually Challenged

- Developed a cost-effective, IoT-enabled solution using Raspberry Pi, OpenCV, and YOLOv3 to assist visually impaired individuals.
- Designed a web interface to add and manage recognized objects and faces.
- Integrated features such as object detection, facial recognition, and text-to-speech conversion for real-time assistance.

● Gold Price Prediction

- Built a machine learning model using the Random Forest algorithm to predict gold prices with high accuracy.
- Emphasized the challenges of financial market unpredictability while achieving reliable results through complex data relationships.

● Fashion Chatbot

- Created a fashion website integrated with an NLP-based chatbot for customer interaction.
- Successfully launched the chatbot-enabled platform, demonstrating advanced NLP and web development integration.

● Breast Cancer Prediction

- Developed predictive models using Logistic Regression, Random Forest, Support Vector Machine, and KNN.
- Achieved high accuracy levels, with Logistic Regression and SVM reaching 97.36%.

● Gender and Age Prediction

- Applied computer vision techniques using pre-trained models to predict age and gender from images.
- Explored further enhancements like emotion recognition for improved accuracy.

Programming Languages

- Python
- Java
- C
- R

Soft Skills

- Communication
- Teamwork
- Adaptability
- Problem Solving
- Critical Thinking
- Time Management

● Chronic Kidney Disease Prediction

- Implemented KNN-imputer for feature engineering, achieving improved prediction accuracy for CKD detection.
- Designed an efficient algorithm requiring fewer medical tests for early and accurate diagnosis.

● Depression, Anxiety, Sleep Cycle, and Academic Performance Prediction

- Utilized machine learning techniques, including SVM and LSTM models, to predict mental health factors and their correlation with academic performance.
- Achieved 98.71% accuracy in predicting sleep cycle issues and 94.85% accuracy in predicting depression, demonstrating the reliability of ML approaches in this domain.

● Legal Document Summarization

- Utilized topic modeling to analyze and interpret large legal document collections.
- Enhanced the methodology with abstractive summarization techniques using RNNs and LSTM networks for improved accessibility and usability of legal analysis.

● Q-Learning for Autonomous Taxi Agent in OpenAI Gym

- Demonstrated the application of Q-Learning in training an autonomous taxi agent for navigation and transportation tasks.
- Validated reinforcement learning's potential in dynamic, real-world environments.

Professional Experience

● Quick Box Delivery Services L.L.C

- Created responsive user interfaces and integrated MongoDB with APIs.
- Designed and tested chatbots for enhanced user engagement.

Certifications

- Business Analyst Fundamentals
- Google Data Analytics
- Udemy Data Analyst Course
- NLP and Text Mining
- MongoDB Course