SAADHIKA E

4TH YEAR UNDERGRAD

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

Hard Skills

- Python
- Machine Learning
- Deep Learning
- Data Analytics(SQL, Tableau)
- HTML, CSS, JavaScript
- Streamlit

Curious and driven Computer Science student specializing in Artificial Intelligence and Data Analytics. Passionate about exploring Machine Learning, Data Science, and Data Analytics to build practical solutions. Hands-on experience with projects involving predictive modeling, computer vision, and real-time ML applications, including news classification, breast cancer prediction, and IoT-based assistive technologies. Strong team player with a keen interest in solving problems, learning new tools, and contributing to impactful, data-driven innovations.

Projects and Internships

Intern at VCodez Innovating Ideas

- **Role -** ML Engineer

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.

NEWSCAT Online News Classification Using Machine Learning Techniques

- Developed a news classification system achieving a high accuracy using Random Forest, supported by strong preprocessing and feature extraction.
- Built a Streamlit web application for real-time testing and provided a scalable foundation for advanced text classification systems.

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%.

Soft Skills

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

Languages

- English
- Tamil
- Telugu
- Hindi

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.

Certifications

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