

A ABISHEK

Computer Science Student

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SUMMARY

I am a final-year Computer Science student specializing in Data Science. With hands-on experience in SVM classification, feature extraction, and energy monitoring systems, I have completed projects that utilize machine learning and data analytics to solve real-world issues. My passion lies in creating efficient AI-driven applications that enhance functionality and user experience.

EXPERIENCE

Embedded System

CSIR-CSIO 03/2022 - 01/1970 India

Research and development institution focused on advanced technologies

- Developed and deployed an Energy Management System (EMS) for real-time monitoring of smart meters using RS485 Modbus protocol
- Built backend in C# with SQL Server for data storage, analytics, and energy usage optimization dashboard

EDUCATION

B.Tech CSE Spec in Data Science

Periyar Maniammai Institute of Science & Technology

08/2022 - Present Thanjavur, Tamil Nadu, India

LANGUAGES

English

Proficient



Tamil

Native



TRAINING / COURSES

Bachelor of Technology in Computer Science and Engineering (Data Science)

Data Science, Machine Learning, Database Management Systems

KEY ACHIEVEMENTS

Energy Management System Development

Successfully developed the Energy Management System enabling real-time smart meter monitoring, which optimized energy usage across multiple sectors

SKILLS

C/C++ • CSV • Embedded System • GitHub • K-Means •

MongoDB • Matplotlib • MFC • Microsoft SQL Server • Modbus •

Numpy • Pandas • Python • Scikit-Learn • SQL • SVM •

TensorFlow • Visual Studio • Visual Studio Code •

NET Framework • NET • Gmail • Python

PROJECTS

Image Recognition based on actor images using SVM

01/2022 - 04/2022

Image Recognition using SVM

- Designed and implemented an image recognition system to identify characters using Support Vector Machine (SVM) classification
- Applied advanced preprocessing techniques, achieving high classification performance through hyperparameter tuning and cross-validation

Voice Recognition System using Librosa

05/2022 - 08/2022

Voice Recognition System Development

- Developed a voice recognition system using the Librosa library to extract Mel-Frequency Cepstral Coefficients (MFCC) from audio samples
- Achieved balanced clustering results and automated dataset creation

Energy Management System Dashboard

09/2022 - 12/2022

Energy Management System Dashboard Development

- Developed Windows Forms application to visualize real-time smart meter data via RS485 Modbus
- Implemented dynamic charts and monitoring features for enhanced user experience