Karthikraman Balamurugan

B.Tech* ICT

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ABOUT ME

Third-year undergraduate student at Dhirubhai Ambani Institute of Information and Communication Technology, pursuing ICT course . I always like to share my knowledge with everyone. Eager to contribute innovative solutions and technical insights as a Software Engineer Intern, bringing a fresh perspective to enhance team effectiveness.

PROJECTS

House Price Prediction Model (2024)

Developed a Streamlit-based California House Price Prediction web application using machine learning algorithms. Implemented interactive data visualization with Plotly and feature importance analysis for accurate real estate valuation. The application provides comprehensive price predictions with location-based insights and detailed analysis.

Code Snippet Manager (2023)

Developed a C++-based Code Snippet Manager application that streamlines code organization and retrieval. Implemented advanced features including CRUD operations for code snippets, tag-based search, and an inverted index for fast lookup. Used STL maps for data handling and integrated file system storage for persistence.

Speech to text with AI response (2025)

Built a web app that converts speech to text using Whisper and generates AI responses with Ollama. Implemented real-time audio processing and user-friendly interface.

EDUCATION

B.Tech of Information and Communication Technology

Dhirubhai Ambani Institute of Information and Communication Technology (DAIICT)

2023 – 2027, Gandhinagar

Grade 10, 12 (92.6% in 10th and 87.2% in 12th)

Asian International (P) School

2021 – 2023, Ruwais, Abudhabi

ADDITIONAL RESPONSIBILITIES

Hackout Coding Event (Intra college), Rural Internships, AI Club in DAIICT and Electronic Hobby Center member (DAIICT EHC)

Industry Knowledge

XGBoost
Regression model
Numpy, Pandas, Sklearn
C++ , HTML , CSS, Typescript/Javascript
DSA
PostgreSQL , SQL
Whisper

Tools & Technologies

Figma, Sketch, React, Windsurf, Canvas, Streamlit, ollama

Other Skills

Data structures , teamwork, Communication ,Development Practices, Learning Agility, Problem Solving

Languages

English (professionnal)
Hindi & Tamil (native)

Social

karthikraman.in
linkedin.com/in/karthikramanbalamurugan
github.com/karthikraman30
leetcode.com/u/kart2006

Contact Card