Govarthinam Karthick

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https://www.codechef.com/users/karthick_0501
https://github.com/G-karthick0501

Highly motivated Computer Science Engineering student with proficiency in Java, C++, and Python. Seeking an internship to leverage my strong problem-solving skills and gain practical experience in software development. Possesses a solid foundation in data science libraries (NumPy, Pandas) and familiarity with computer vision concepts (OpenCV). Eager to contribute to a team environment and further develop programming expertise.

KEY COMPETENCIES

Proficient in Java , C++,Python Strong Problem-Solving Skill Good understanding of DS&A

Familiarity with SQL databases Experienced in data science libraries (NumPy, Pandas, Matplotlib, Seaborn, scikit-learn) and OpenCV for computer vision.

Foundational experience in web development, including HTML, CSS, and JavaScript, Basic data analysis capabilities.

EDUCATION & CERTIFICATIONS

Bachelor of Technology in Computer Science and Engineering — Aug 2022 - Present
Symbiosis Institute of Technology, Pune

Introduction to python — Sep 2022
DataCamp

OpenCV Bootcamp Certificate — Jun 2024
OpenCV University

Programming for Everybody (Getting Started with Python) — Sep 2022
Coursera

PERSONAL PROJECTS

Hospital Management System

Java hospital management system for managing patients, doctors, appointments, and billing using JDBC, Apache NetBeans, and SQL.
Technologies Used: Java,Jdbc,Apache NetBeans IDE and SQL.
A Java application simulates a patient portal for a hospital. Patients login and manage appointments, prescriptions, bills, and allergies. It utilizes JDBC to connect to a MySQL database for data storage and retrieval.

GitHub Link: https://github.com/G-karthick0501/Hospital-Management

Loan Default Prediction model

The loan default prediction model uses Decision Tree and Random Forest algorithms to analyze borrower data, such as credit history and income, to predict defaults. The Decision Tree provides interpretability, while the Random Forest improves accuracy by combining multiple trees. It’s optimized for large-scale use, helping financial institutions reduce risk and improve loan decisions.

Reactive 3D Sound Visualizer with Face Tracking

A web application that captures video and audio from the user's device, detects the user's face, and then displays the audio as a dynamic 3D visualization using an array of cubes. The 3D cubes adjust their size and position based on the audio input, creating a synchronized visual effect that aligns with the detected face.

Technologies Used: TensorFlow.js,A-Frame,Web Audio API,JavaScript

GitHub Link:https://github.com/G-karthick0501/audio_visualizer