



DHARANIDHARAN S R

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PROFESSIONAL SUMMARY

Aspiring AI and Full-Stack Developer with hands-on experience building machine learning models and responsive web applications. Proven ability to create end-to-end solutions, demonstrated through award-winning projects in AI-driven analysis and competitive coding. Eager to apply skills in Python, React, and computer vision to solve real-world problems.

EDUCATION

BE.TECH(AIDS) – Kongu Engineering College CGPA: 8.40 (up to 5 th sem)	2023 – 2027
HSC – G.V.Higher Secondary School	2021 – 2023
SSLC –G.V.Higher Secondary School 82%	2020 – 2021

PROJECTS

AI-Powered Mock Interview Platform (React, Next.js, Gemini API, Drizzle ORM, Clerk)

Engineered an interactive web application to conduct AI-driven mock interviews using Next.js, React, and Google's Gemini API, featuring personalized interview sessions, real-time feedback, and secure user authentication. Integrated the Gemini API for dynamic question generation and answer analysis, utilized Drizzle ORM for type-safe database interactions, and implemented Clerk for robust user authentication and session management.

AI Football Analyst (Python, OpenCV, YOLO, Computer Vision) – Tactical Analysis System

Developed an automated tactical analysis system to track player and ball positions from broadcast video using Python, OpenCV, and the YOLO object detection model. Implemented a Homographic Perspective Transform to map player coordinates onto a real-time 2D tactical view, providing a low-cost, high-efficiency alternative to manual sports analytics.

Loan Approval Predictor (Python, Scikit-learn, Flask) – Machine Learning Prediction System

Developed a machine learning model to predict the likelihood of loan approval using a **Random Forest** algorithm trained on the SBI public loan dataset. Deployed the predictive model as a simple web application using **Flask**, allowing for real-time eligibility checks based on user input.

CERTIFICATIONS

Oracle APEX Cloud Developer Certified Professional Certification Completed

COMPETITION

CODETHON 2024 - Won 1st prize in a coding conduct by codetantra.

IDEATHON 2024 – Won 3rd prize for creating a mock interview app.

SKILLS

Languages – C | Python | Java | HTML | CSS | JavaScript | React | NodeJS

Tools – Git & GitHub | Figma | Canva | n8n | MongoDB | Oracle