Harshita S

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EXPERIENCE

CONSOLIMATE | Software Engineer Intern
July 2024 - August 2024 | US Berkeley

- Developed a front-end interface/ implementation of existing designs using React.js
- Front-end styling and design contributions using Figma.

GREEN AI | Intern
April 2025 - May 2025 | Bengaluru

- Performed topic modeling on research papers using BERT to identify nine distinct topics and created structured summaries with data visualizations.
- Developed a full-stack chatbot using React.js and Flask enabling users to browse papers by topic and access detailed paper information.

PROJECTS

DECENTRALIZED EXCHANGE (DEX) PLATFORM | Web3, React.js ,Next.js, MetaMask.

- Developed a full-stack DEX application using Next.js, React, and TypeScript with Thirdweb SDK integration, enabling seamless token swapping between native ETH and custom ERC-20 tokens on Sepolia testnet.
- Built dynamic liquidity pool system with real-time price calculations, automatic token approval workflows, and intuitive swap interface featuring balance validation and bidirectional trading functionality

VISUAL SEARCH ASSISTANT |CLIP , YOLOV5 , Mistral AI

- Developed React.js web application with CLIP, YOLOv9, and Mistral AI for image upload and natural language product search.The objective is to enable users to search and discover products using both images and natural language queries for enhanced accuracy and convenience.
- Built scalable vector search system using Pinecone database with sub-3-second response times and intelligent contextual recommendations.
- Created end-to-end multimodal AI pipeline combining computer vision, NLP, and LLMs for semantic fusion of visual and textual inputs.

DEPLOYMENT OF MACHINE LEARNING CLASSIFICATION MODEL ON ESP32 | TensorFlow, TFLite, ESP32 , Arudino IDE.

- Built and trained a lightweight classification model using a UCI dataset in Python with TensorFlow, then converted it to a TensorFlow Lite model for embedded deployment. The objective is to demonstrate real-time, low-power AI inference on microcontrollers using a compact, deployable ML model.
- Deployed the model on an ESP32 by converting it to a C header file and implementing embedded C++ code for real-time, on-device inference with validated outputs.
- Verified the inference accuracy by comparing predicted outputs on both desktop and ESP32 environments, demonstrating real-time edge AI capabilities.

EDUCATION

RV UNIVERSITY
Bachelor of Technology in Computer Science with minors in Gen AI , Deep Learning
Dec 2022 - June 2026 | Bengaluru.
CGPA:9.29

GH PU COLLEGE
12th
June 2020 - April 2022 | Haveri.
Percentage: 95.17

TECHNICAL SKILLS

Languages: C,Java, HTML, CSS ,Javascript.
Libraries: React.js .
Databases: SQLite.

CORE COURSES
Data Structures and Algorithms in Java , OOPS .

TECHNOLOGY
Github • Visual Studio Code, • Linux IntelliJ Idea. • Generative AI

CERTIFICATIONS

GPT Vision - Seeing the world through GenAI - Coursera.

Big Data Computing - NPTEL

Google Cloud Computing Foundations - NPTEL.

CO-CURRICULAR

Patent : Adaptive knowledge conveyance platform for immersive expierences – 202341068943.

HPCC – Hackathon | RV University

Tech-Tank | RVCE

LINKS

Github:// **Harshita S**
LinkedIn:// **Harshita S**