Hariesh Ramesh

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CAREER OBJECTIVE

Motivated computer science professional seeking a challenging role in a dynamic organization. Looking to leverage my software development and data analysis skills to drive innovative solutions. Committed to continuous learning and applying technical knowledge to solve complex problems.

EXPERIENCE

UNIVERSITI TEKNOLOGI PETRONAS | Research Intern

Jan 2024 – June 2024 | Perak, Malaysia (Remote)

- Collaborated with UTP researchers for detailed analysis of Deep Learning and Deep Reinforcement Learning models on Sentimental Analysis.
- Acquired expertise in applying Reinforcement Learning and Deep Reinforcement Learning for Sentimental Analysis Dataset.
- Designed and evaluated Q-Learning, Deep Q-Learning, and CNN-LSTM models.

FABROMEN | Web Developer Intern

March 2023 - April 2023 | Erode, TN (Remote)

- Launched the first-ever company website, focusing on front-end development and UX/UI design.
- Partnered with a fellow intern to draft UI using Figma, creating user-friendly layouts and prototypes.
- Rendered UI design into functional front-end elements using HTML and CSS, ensuring responsiveness and visual appeal, and hosted the final website.

PROJECTS

FORECASTING THE RISK OF CHRONIC KIDNEY DISEASE

Jan 2024 – June 2024

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- Developed a GNN model to predict CKD progression, demonstrating superior performance in forecasting GFR values.
- Enhanced model accuracy by implementing advanced feature engineering, such as date conversion and feature scaling.
- Applied CNNs, LSTMs, and VAEs, with GNNs proving most effective in capturing intricate data relationships for accurate predictions.

YOGA POSE RECOGNITION AND CORRECTION

Aug 2023 – Nov 2023

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- Developed an AI system for Real-time yoga pose recognition and correction system.
- Achieved 98.89% training accuracy with CNN and 84.79% validation accuracy with CNN-LSTM.
- Leveraged MediaPipe for precise pose estimation, implemented hybrid CNN-LSTM models and processed a diverse dataset of 5,134 images with rigorous filtering and hyperparameter tuning.

GPS TOLL AUTOMATION DISTANCE MEASUREMENT

Jan 2023 - April 2023

- Designed a model using Arduino Nano to track GPS signals and Arduino Uno to process readings from an RFID scanner.
- Developed a system to detect vehicle entry onto highways and calculate distance using a transmitter and receiver.
- Created the project prototype for real-time tracking and distance measurement, though it remains incomplete and not intended for further development.

SKILLS

PROGRAMMING LANGUAGES

Intermediate Proficiency:
Java • Python
Basic Proficiency:
C++

WEB DEVELOPMENT

Intermediate Proficiency:
HTML • CSS • JavaScript

TOOLS & TECHNOLOGIES

GIT • React • Flask • Node.js • Power BI

EDUCATION

KONGU ENGG. COLLEGE

B.Tech in AI and ML with Honors in IoT
Expected March, 2025 | Erode, TN
Cum. GPA (till 6th Sem): 7.58 / 10.0

CEOA MATRIC. HSC SCHOOL

May 2021 | Madurai, TN
Percentage: 84.064

GEMS OOB SCHOOL

March 2019 | Sharjah, U.A.E
Percentage: 73.33

AREA OF INTEREST

Machine Learning • Deep Learning • Ethical AI • Web Developer

PUBLISHED

IEEE PAPER

Alzheimer's prediction using Deep Learning
August 2023 | Sasthamkotta, Kerala
Best Paper Award, ICCPCT (IEEE), Deep Learning for Alzheimer.
Publish link: **IEEE**

NEWSLETTER

Comparative analysis of LLM models
Published newsletter in Centillions Lab, highlighting key insights and findings.
Publish link: **Centillion Case Studies**

ACHIEVEMENTS

SIGNIN 2K22

Runner-up in Paper Presentation

ELITE WORLD RECORD

Participated in a world record event held by CEOA Schools

KFAS SCIENCE ACADEMY

Completed a scientific training session