Hariesh Ramesh

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CAREER OBJECTIVE

Motivated AI/ML enthusiast with hands-on experience in developing solutions. Seeking to apply expertise in machine learning to create impactful technologies and enhance user experiences.

EXPERIENCE

UNIVERSITI TEKNOLOGI PETRONAS | Research Intern
Jan 2024 – June 2024 | Perak, Malaysia (Remote)
- Collaborated with UTP researchers on Deep and Reinforcement Learning models, including Q-Learning, Deep Q-Learning, and CNN-LSTM.
- Enhanced sentiment analysis by optimizing and evaluating model performance.
- **Tech Stack:** Python, TensorFlow, Keras, Scikit-learn..

FABROMEN | Web Developer Intern
March 2023 - April 2023 | Erode, TN (Remote)
- Developed the company's first website, focusing on front-end and UX/UI design.
- Collaborated on UI prototypes in Figma and implemented responsive designs using HTML and CSS.
- **Tech Stack:** HTML, CSS, Figma.

PROJECTS

EMOTION-BASED MUSIC RECOMMENDER: SPOTIFY
Jan 2024 – Present
- Suggested songs by detecting the user's emotion and recommending artists that match their mood.
- Enhanced accuracy through advanced feature engineering, including date conversion and scaling.
- **Tech Stack:** TensorFlow, Spotify API | Source Code | Demo V1 | Demo V2

FORECASTING THE RISK OF CHRONIC KIDNEY DISEASE
Jan 2024 – June 2024
- Developed a GNN model for predicting CKD progression with improved GFR forecasting.
- Enhanced accuracy through advanced feature engineering, including date conversion and scaling.
- **Tech Stack:** PyTorch, Scikit-learn, Pandas | Source Code

YOGA POSE RECOGNITION AND CORRECTION USING DL
Aug 2023 – Nov 2023
- Created an AI system for real-time yoga pose recognition and correction using CNN-LSTM.
- Achieved 98.89% training and 84.79% validation accuracy, leveraging MediaPipe for pose estimation.
- **Tech Stack:** PyTorch, Scikit-learn, Pandas | Source Code

EMOTION-BASED MUSIC RECOMMENDER : YOUTUBE
Aug 2023 – Sep 2023
- Built a TensorFlow model for emotion detection from images and used GPT-2 for personalized dialogues.
- Integrated YouTube API to recommend music based on emotional context.
- **Tech Stack:** TensorFlow, Hugging Face, YouTube API | Source Code | Demo V1 | Demo V2

SKILLS

PROGRAMMING LANGUAGES
Intermediate Proficiency:
Java • Python

WEB DEVELOPMENT
Basic Proficiency:
HTML • CSS

TOOLS & TECHNOLOGIES
GIT • Streamlit • Power BI • Prompt Enginnering

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