Mahendran B

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Projects

DeepFake Detection System (Link)
- Engineered a deep learning model achieving 92 percent accuracy in distinguishing between real and fake faces by leveraging Inception ResNet V1 architecture on a dataset of 140,000 images.
- Leveraged Kaggle's computational resources to train and optimize the model, ensuring robust performance across various facial expressions, angles, and lighting conditions, reducing false positives by 20%.

Brain Tumor Classification System (Link)
- Designed a Brain Tumor Classification System using PyTorch and Streamlit, achieving 91 percentage accuracy in detecting and classifying four types of brain tumors from MRI scans.
- Optimized a CNN model on a balanced dataset of 44,000 MRI images and Built a user-friendly interface for real-time image analysis and diagnostics.

Financial Data Analytics: Stock Market Trend Analysis (Link)
- Executed exploratory analysis of market trends for Google and Tesla over a period of 3 years using Python and Power BI, identifying 10 key investment patterns and insights.
- Presented 2 data-driven visualizations and reports, aiding in strategic decision-making for potential investors.

FIFA Player Performance & Economic Analytics (Link)
- Developed interactive Power BI dashboards to visualize performance data of 18,000+ football players (2015 to 2024), highlighting key metrics for attackers, midfielders, defenders, and goalkeepers.
- Created dynamic visualizations for top 11 player selections and key performance indicators (KPIs),Significantly improving players selection accuracy.

Experience

College Volunteer   *Jan 2023 - Present,*
- Mentored 20+ college mates in machine learning and AI, enhancing their understanding and application of key concepts.
- Coordinated and Facilitated 3 intra-college AI workshops, fostering a collaborative learning environment.

Member, IEEE-CS Society *(Link)*   *Mar 2023 - Present,*
- Contributed to the successful organization and execution of the inter-college Robo Expo event attended by 100+ participants.
- Engaged in a 10+ hour IEEE CS Day workshop on 'GenAI and LLMs', gaining insights into advanced AI concepts such as GAN, VAE, and Diffusion Modeling.

SKILLS

Back End	Python ,R, C++
Deployment	Streamlit, Flask
DBMS	MySQL, MongoDB
Version Control	GIT , GitHub
DSA	OOP Concepts
ML Libraries	TensorFlow,Pytorch, Scikit-learn,Open-CV
Data-visualization	Power BI

EDUCATION

S.A Engineering College
B.E - Computer Science(AIML)
CGPA: 8.2/10

CERTIFICATIONS

-Advanced R Programming for Data Analytics in Business IIT Kanpur (NPTEL). (Link)

-Machine Learning Specialization by DeepLearning.AI (Andrew Ng). (Link)

Achievement (Link)

Secured 2nd Runner-Up at Nexus 2K24 Project Expo (IEEE Society) for the DeepFake Detection project, recognized for its AI-driven approach to combating digital misinformation.

On Going Project

Medical Diagnostic System: Crafting a comprehensive platform combining LLM (Mistral) with computer vision to revolutionize medical diagnostics.

Links

- github.com/Mahendran
- kaggle.com/Mahendran
- Leetcode.com/Mahendran