PAVITHRA R

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OBJECTIVE

Motivated and detail-oriented AI and Python developer with a strong background in Generative AI and deep learning. Experienced in designing AI-driven applications and solving real-world problems through innovative solutions. Passionate about continuous learning and staying at the forefront of AI advancements.

EDUCATION

JSS Academy of Technical Education , Bengaluru **2022-2026**

Bachelor of Engineering, Computer Science – **9.5 CGPA**

Surana Independent PU College , Bengaluru **2020-2022**

PCMB – **97.16%**

S.J.R Kengeri Public School , Bengaluru **2007-2020**

ICSE-**94.16%**

SKILLS

Programming Languages: Python, Java, HTML, CSS, JavaScript.

Frameworks and Libraries: Flask, Streamlit, TensorFlow, PyTorch, Scikit learn, Matplotlib, Seaborn, NumPy, Pandas, Google Gemini API .

Platforms: Jupyter Notebook, Google Colab, VS Code.

Soft Skills: Problem-solving, Teamwork, Analytical Thinking, Time Management, Fast Learner, Communication, decision making, leadership.

PROJECTS

Deep Learning-Based Neurological Disorder Prediction

Developed a deep learning model to predict neurological disorders using medical imaging datasets. Leveraged CNN architectures and Transfer Learning techniques, including VGG-16, GoogleNet, and ResNet, to improve classification accuracy. Applied Grad-CAM visualization techniques to enhance model interpretability, ensuring better validation and reliability of predictions for real-world medical applications.

AI-Powered Carbon Footprint Tracker

Developed a web application that tracks carbon footprints and provides AI-driven recommendations to reduce emissions. The system integrates real-time emission calculations and an interactive dashboard for visualizing data trends. Leveraging React.js for the frontend and TensorFlow for AI-based analysis, the application ensures scalability and user-friendly accessibility**.**

AI-Powered Air Quality Improvement System

Developed a smart air quality monitoring and enhancement system using AI-driven analysis. The system integrates IoT sensors (MQ135, ESP8266) to collect real-time environmental data and applies AI models to predict the Air Quality Index (AQI) while detecting anomalies in pollution levels. By leveraging deep learning techniques, this project helps in proactive air quality management and supports environmental sustainability efforts.

CERTIFICATIONS

- AI and Machine Learning Full Course – IBM Skillsbuild
- Strategy Formulation and Data Visualization – IIT Madras
- Programming in Java- IIT Kharagpur (NPTEL)
- Data Analytics and Visualization Job Simulation - Accenture

ADDITIONAL INFORMATION

- Participated in various hackathons, showcasing AI-driven solutions and innovative problem-solving approaches.
- Submitted a research paper titled 'CNN-Based Neurological Disorder Prediction' to IEEE Conference (under review).
- Participated in Workshop on “GenAI and its Applications” held during 15-16 November, 2024 organized by Department of Computer Science and Engineering, JSSATE, Bengaluru.
- Interests: Teaching, Building Innovative Projects, Design Thinking.