Satyanarayana Merla

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Objective

I am excited about using data-driven insights to address complex challenges, and I am looking for a challenging role where I can apply my abilities in predictive modeling, data visualization in a collaborative team setting. With a strong foundation in statistical data analysis and programming languages such as Python, as well as hands-on experience with tools such as TensorFlow and Keras, I am eager to contribute to a growing firm while expanding my knowledge of data science. I am excited to collaborate with talented individuals to address real-world challenges and develop meaningful solutions.

Work Experience

Associate Software Engineer Aug 2024 - Present

In my role as a Data Science Intern at Trysol Global Services, We working on a project, the goal of the project was to conduct research and development to design a recommendation system for a new product, aimed at improving user engagement and satisfaction. The primary focus was on analyzing user behavior and preferences to deliver personalized recommendations and insights.

Python Developer Feb 2023 - May 2023

Python Developer Intern,Pranathi software services,Hyderabad,
Enhanced ability to clearly explain technical concepts and collaborate effectively with team members. Worked well with colleagues to solve problems and share ideas, contributing to a productive team environment. Adjusted to changing project requirements and feedback, demonstrating flexibility in a dynamic work environment.

Projects

Classifying-anatomical-structure-in-2D-fetal-ultrasound images

"Classifying Anatomical Structures in 2D Fetal Ultrasound Images" involves developing a machine learning-based approach to automatically identify and classify anatomical structures in ultrasound images. The main goal is to improve the accuracy and efficiency of diagnostic processes in medical imaging, particularly in prenatal care.
Developed a deep learning-based solution using convolutional neural networks to classify fetal ultrasound images into abdomen, thorax, brain, and femur categories.
The classification system demonstrates potential for use in real-world medical diagnostics by reducing manual effort and increasing diagnostic reliability.

Blood Donation Management System

Blood Donation Management System Developed a comprehensive blood donation management system featuring three modules: Hospital, Company, and Donor. The system streamlines communication between hospitals, companies organizing donation camps, and registered donors through user registration, email notifications, and a secure donor database, ensuring efficient coordination during emergencies and campaigns.

Crop-Recommendation-System-using-KNN-Algorithm

The Crop Recommendation System using the K-Nearest Neighbors (KNN) Algorithm project is designed to help farmers choose the best crop based on soil nutrient composition
The Python script uses machine learning to recommend crop growth based on input factors like nitrogen, phosphorus, potassium, temperature, humidity, pH, and rainfall, with GUI and speech synthesis capabilities.

Skills

Programming Languages	Python
Data Manipulation and Analysis	Pandas, NumPy, SciPy
data visualization	Matplotlib, Plotly, Seaborn.
Tools	TensorFlow, Keras, scikit-learn
Machine Learning	
Deep Learning	
Django, Fastapi	
Structured Query Language(SQL)	
Development Tools: Visual Studio Code, Jupyter notebooks, Git.	

Education

2020 - 2023	Master of Computer Applications at **Vignan's institute of information technology (VIIT)**	(GPA: 7.0/10.0)
2017 - 2020	Bachelor of Science (BSc) at **Aditya degree college**	(GPA: 7.1/10.0)
2017	Class 12Th State Board	(7.6)
2015	Class 10Th State Board	(7.3)

Publications

Merla Satyanarayana, P Pavithra (Oct. 2023). "Paper: CROP RECOMMENDED SYSTEM USING MACHINE LEARNING," in: *Indian Political Science Association* LXXXV,3. URL: https://drive.google.com/file/d/1zZnBYP5cvmLbXuyLGEIiC2MNd0h97RFr/view.