Ajith Adhithya Mukkera

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Objective

Aspiring Data Scientist with expertise in Machine Learning, Deep Learning, Python, and OpenCV. Passionate about solving real-world problems using data-driven insights and building innovative AI solutions. Seeking to contribute to TensorGo's vision through technical expertise and hands-on project experience..

Education

Bachelor of Technology in Mechanical Engineering
Chaitanya Deemed to be University, Hanamkonda
Graduated: 2023

Technical Skills

- Data Analysis: Python, SQL, Excel
- Data Visualization: Power BI, Tableau, Matplotlib, Seaborn
- Computer Vision : Open CV, Image Preprocessing, Feature Extraction
- Statistical Analysis & Modeling: Predictive modeling, Hypothesis testing, Regression, Classification
- Machine Learning: Scikit-Learn, Supervised and Unsupervised Learning
- Tools & Libraries: Tensor Flow, Keras, Scikit-learn, TextBlob

Professional Experience

Data Scientist Intern
Social Tek AI & Business Solutions
May, 2024 – October, 2024

- Collaborated with a data scientists team to develop and enhance chatbots, focusing on various types, including customer service and informational bots.
- Conducted data analysis to understand user interactions, enabling improvements in chatbot response accuracy and user satisfaction.
- Supported the team in implementing natural language processing (NLP) models to
- improve the chatbot’s language understanding and context recognition.
- Tested chatbot performance and helped optimize conversation flows, contributing to a more intuitive user experience.
- Documented chatbot functionality and performance metrics to ensure quality and consistency in updates and maintenance.

Projects

Airport Staff Detection System

- Developed a deep learning model to detect and track airport staff in surveillance foot
- Utilized CNNs for feature extraction and classification, ensuring high accuracy in real-time detection.
- Integrated OpenCV for video frame analysis and object tracking.

Plant Disease Detection

- Designed and implemented a CNN-based model to identify plant diseases from leaf images.
- Preprocessed images using techniques like resizing, normalization, and data augmentation.
- Achieved high accuracy by fine-tuning hyperparameters and leveraging transfer learning.

Construction Time Estimation

- Built a machine learning model to predict construction project completion times using synthetic pilot data.
- Analyzed key factors such as resource allocation, weather conditions, and labor availability.
- Used regression algorithms and feature engineering to improve prediction accuracy.

Certifications

Data Science with AI - Social Prachar

Soft Skills

- Strong analytical and problem-solving abilities
- Excellent communication and presentation skills for both technical and non-technical stakeholders
- Highly detail-oriented with strong organizational skills
- Collaborative team player with the ability to work independently when needed