Ajith Adhithya Mukkera

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Objective

To begin my career as an AI Engineer, leveraging my expertise in machine learning and programming to develop impactful solutions, while expanding my knowledge and contributing to the success of a forward-thinking organization.

Education

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

Technical Skills

- **Programming & Data Analysis**: Python, SQL, Excel
- **Data Visualization**: Power BI, Tableau, Matplotlib, Seaborn
- **Machine Learning & Deep Learning**: TensorFlow, PyTorch, Keras, Scikit-Learn, Predictive Modeling
- **Statistical Analysis & Modeling**: Hypothesis Testing, Regression, Classification
- **Computer Vision**: OpenCV, Image Preprocessing, Feature Extraction
- **Natural Language Processing**: TextBlob
- **Deep Learning Specialization**: Neural Networks, Model Optimization, and Evaluation

Professional Experience

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

- Collaborated with a team of data scientists 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