Sharan Raj V K

AIML Engineer

CONTACT

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PROFESSIONAL EXPERIENCE

AI Software Engineer – Asttecs Communications

Develop and implement AI/ML solutions utilizing Agentic AI, Retrieval-Augmented Generation (RAG), LangChain, and large language models (LLMs). Build intelligent, context-aware automation frameworks by applying advanced NLP, speech processing, and machine learning techniques to enhance enterprise workflows and improve decision-making efficiency.

EDUCATION

AMC Engineering College | 2020-2024

Bachelors of Engineering in Artificial Intelligence & Machine Learning

St.Joseph's Pre-University College | 2018-2020

PCMB

SKILLS

Machine Learning	Python
Neural Networks	Agentic AI
Data Science	Artificial Intelligence
Deep Learning	Natural Language Processing
Image Processing	php
Data Engineering	SQL

CERTIFICATES

Supervised Machine Learning : Regression and Classification
Stanford University and DeepLearning.AI

Advanced Learning Algorithms
Stanford University and DeepLearning.AI

Unsupervised Learning,Recommenders, Reinforcement Learning
Stanford University and DeepLearning.AI

Deep Learning Fundamentals Theory and Practice with Python
Udemy

Basics of Python
Infosys

Introduction to Machine Learning
Infosys

PROJECTS

Intelligent Multi-Agent System with SQL Query and CRM Integration

Engineered an intelligent multi-agent system that integrates a LangChain-based SQL query agent to extract database insights and seamlessly create tickets in a CRM via API. Utilized advanced LLMs for natural language query processing and dynamically orchestrated agents to manage data extraction and ticket generation workflows. Demonstrated proficiency in multi-agent system design, API integrations, and database interaction for enterprise automation.

DOG-Breed Recognition

Developed a dog breed classification project using Google Colab, TensorFlow 2.0, and TensorFlow Hub. Applied computer vision and deep learning techniques, focusing on thorough data preprocessing, augmentation, and model training to accurately predict dog breeds. This project highlights proficiency in image classification and practical problem-solving through AI-driven methods.

Stock Price Prediction

Utilized historical numerical data to develop time-series forecasting models, including ARIMA and SARIMA, for analyzing trends and seasonal patterns in stock prices. Incorporated natural language processing (NLP) techniques to analyze news headlines and capture sentiment on market-related events.

Personalized Image Generation Project with StyleGAN2

Led the development of a personalized image generation project utilizing StyleGAN2, a highly effective generative adversarial network (GAN) architecture.Responsibilities included data preprocessing, model training, and fine-tuning to achieve desired outcomes.This project underscores proficiency in deep learning techniques and a commitment to delivering innovative solutions in image generation.

Heart Disease Classification

The Heart Disease Prediction Project leverages machine learning to classify individuals at risk for heart disease based on a set of clinical features. This project aims to support healthcare providers by offering a tool that can assist in the early detection and intervention of heart disease.

ACHIEVEMENTS

Machine Learning Specialization - Stanford University & DeepLearning.AI

This specialization provided a strong foundation in machine learning, covering key algorithms such as linear and logistic regression, decision trees, and neural networks, along with advanced techniques in unsupervised learning and recommendation systems. Taught by Andrew Ng, it focused on both theory and hands-on applications using tools like TensorFlow and scikit-learn. Key skills included data handling, model tuning, and optimization,with a focus on managing bias-variance trade-offs and preventing overfitting. By the end of the course, I was equipped to build, evaluate, and deploy machine learning models for practical applications, including prediction, classification, and anomaly detection.

Artificial Intelligence Intern - CodSoft

Gained hands-on AI experience during an intensive internship, successfully completing tasks and earning an internship certificate.Acquired practical insights into AI technologies, contributing to real-world projects.