Aditya Mohan Singh

AI Developer

Highly skilled Senior Machine Learning Associate with a proven track record of developing innovative machine learning and deep learning algorithms and models. Possess strong analytical and problem-solving abilities to effectively analyze complex data sets and generate actionable insights. Seeking a challenging role in a dynamic organization where I can utilize my expertise to drive business growth and contribute to cutting-edge projects.

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WORK EXPERIENCE

Senior Analyst
Accenture

11/2021 - Present *Bangalore, India*

Projects

- Collaborated with the Cardiological Society of India (CSI) to develop a model utilizing a digital stethoscope for the identification of murmur in children with Rheumatic Heart Diseases.
- Designed and implemented the conversational component of the Furhat robot, leveraging a finetuned large language model, text to speech (TTS), and automatic speech recognition (ASR) technologies.
- Developed a multi-modal architecture to accurately detect implicit bias and determine the type of bias present in social media posts and advertisements.
- Created a real-time fall detection model using bounding box grounding techniques, allowing for the identification of missing detections in complex settings.

Programmer Analyst
Cognizant

05/2019 - 11/2021 *Bangalore, India*

Projects

- Developed a language model for Extractive and Abstractive summarization of medical documents and scientific journals
- Implemented the Student Attention Monitoring System to track student attention levels during online classroom sessions using head-pose, eye-gaze, and drowsiness detection
- Conducted In-Store Customer Behavior Analysis via Surveillance Video by utilizing emotion detection and tracking algorithms to identify and analyze customer behavior

EDUCATION

B.E (Computer Science and Engineering)
Sathyabama Institute of Science and Technology

06/2015 - 05/2019 *8.51 GPA*

SKILLS

Gen AI | Python | Java | Machine Learning | Neural Network | MongoDB | SQL | NLP | Flask | Computer Vision | ElasticSearch | AWS | Deep Learning | Git

PUBLICATIONS AND PATENTS

Early-warning of Cardiac Condition through Detection of Murmur in Heart Sound-A Case Study
published at EMBC 2023

Temporal Shift Module (TSM) Based Automatic Fall Detection with Bounding Box Grounding
published at EMBC 2023

Utilizing Machine Learning Models to Identify Implicit Bias
U.S. Patent Application No.: 18/068,945

CERTIFICATES

Generative AI with Large Language Models
Coursera certficate

Red Hat certified system administrator
CERTIFICATION ID: 180-121-469

Introduction To Modern Application Development
NPTEL

INTERESTS

Cricket | Cooking | Movies