

Santu Hazra SENIOR SOFTWARE ENGINEER - AI/ML

Details



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Skills

- DEEP LEARNING
- MACHINE LEARNING
- LARGE LANGUAGE MODELS
- MULTIMODAL MODELS
- GENERATIVE AI
- STABLE DIFFUSION
- NLP
- SPEECH PROCESSSING
- LORA,QLORA
- REINFORCEMENT LEARNING
- PYTORCH
- PYTHON
- FASTAPI
- C++
- · MLOPS (Docker, AWS Serverless)

Education

B.Tech In Electronics & communication engg, West bengal university of technology

Interest

Trekking Adventure Sports Mountaineering **Swimming Paragliding**

Profile

- AI/ML Engineer with over 9 years of experience in developing intelligent systems for humanoid robotics, focusing on enhancing human-robot interactions through computer vision and natural language processing.
- Proven expertise in optimizing machine learning models for realtime applications. Passionate about leveraging AI technologies to create engaging, user-friendly experiences.

Experience

Senior AI/ML Engineer Machani Robotics — Bangalore | Feb 2020 - Present

- Developed and fine-tuned the ArcFace model for Indian faces, achieving 92% accuracy by utilizing the Indian Movie Faces Dataset and a custom dataset of company employees.
- Implemented a comprehensive face recognition pipeline on NVIDIA AGX Jetson, integrating face detection, embedding generation, and kinematic control for humanoid robots.
- Designed an object detection pipeline using YOLO v8 for environmental awareness, enabling robust interaction capabilities with the bot.
- Conducted fine-tuning of Llama 3.2 to integrate company context into the RAG framework, optimizing conversational capabilities and user engagement.

Data Scientist

Cognizant Technology Solutions — Bangalore | Apr 2015 - Jan 2021

- Conducted customer retention analytics to identify potential churn, leading to strategic promotional initiatives and increased client revenue.
- Developed customer acquisition models to prioritize leads based on revenue potential, enhancing resource allocation.
- Executed customer sentiment analysis using machine learning to extract insights from consumer reviews, aiding product development strategies.
- Led distracted driver detection projects, classifying driver behaviours from 2D dashboard camera images to improve client safety measures.

+ Certification

- · Wiley Certified Data Scientist, Credential ID: CZN-CDS-BAN-210819004
- · Extensive Vision Al program from The School of Al