SH

SANTU HAZRA

DATA SCIENTIST | ROBOTICS ENGINEER

SKILLS

- PYTHON
- MACHINE LEARNING
  - ✓ Regression Algorithms
  - ✓ Classification Algorithms
  - ✓ Clustering Algorithms
- DEEP LEARNING
  - ✓ Image Classification
  - ✓ Object Detection
  - ✓ Image Segmentation
  - ✓ Pose Estimation
  - ✓ Face Recognition
  - ✓ GAN
  - ✓ LSTM, Transformer, GPT-3
  - ✓ Deep Fake
- REINFORCEMENT LEARNING
  - ✓ Q Learning
  - ✓ DQN
  - ✓ A3C
  - ✓ TD3
- PYTORCH
- TENSORFLOW
- ROS Basics
- C++
- AWS Lambda
- R
- HTML, CSS & BOOTSTRAP BASICS

EDUCATION

- **B.TECH** in **ELECTRONICS & COMMUNICATION ENGG**, **WEST BENGAL UNIVERSITY OF TECHNOLOGY**

CERTIFICATION

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

CAREER SUMMARY

- Currently working as a Robotics Engineer at Machani Robotics. Here we are working on creating Humanoid app from scratch in NVDIA ISAAC, controlling dynamixel and polulu servos, visualising real time Humanoid performance in simulation app like Blender and Nvidia Omniverse and AI pipeline.
- Experienced in various advanced **Computer Vision** state of art concepts and **Machine Learnings** Algorithms.

EXPERIENCE

Current Organization: Machani Robotics (Feb 2020-Present)

- **Humanoid Robot**
  - **Objective:** Create an intelligent humanoid robot named Aria which can perform simple human task e.g. picking object by looking at it, welcomes a guest, hand shake, recognize people later once introduced their name, object detection etc.

Past Organization: Cognizant Technology Solution (Apr 2015 – Feb 2020)

- **Customer Retention Analytics**
  - **Objective:** Detect possible future churn customers so that client can design promotional strategies to retain them, which will help to increase overall revenue.

- **Customer Acquisition Analytics**
  - **Objective:** Prioritize customer that can generate high revenue from all the potential leads. By doing this, client can efficiently utilize resources to prioritize the high revenue generating customers and approach them for business.

- **Customer Sentiment Analytics**
  - **Objective:** Discover insights into consumer reviews of specific products and assist with machine learning models.

- **Distracted Driver Detection**
  - **Objective:** According to the CDC motor vehicle safety division, a distracted driver causes one in five car accidents. Client wanted to improve these alarming statistics, and better insure their customers. Given a dataset of 2D dashboard camera images, client wanted to classify each driver's behavior.

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