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# SANTU HAZRA

Robotics Engineer | <https://mighty-ridge-40717.herokuapp.com/>

## SKILLS

- Robotics Manipulation
- Mechatronics basics
- NVIDIA ISAAC, Omniverse
- ROS Basics
- Python
- 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
- C++
- HTML, CSS & BOOTSTRAP BASICS
- AWS Lambda
- MACHINE LEARNING
  - ✓ Regression Algorithms
  - ✓ Classification Algorithms
  - ✓ Clustering Algorithms
- TERADATA SQL
- R

## 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 **NVIDIA ISAAC**, controlling **dynamixel** and **polulu** servos, visualising real time Humanoid performance in simulation app like **Blender** and **Nvidia Omniverse** and **AI** pipeline.
- Industry Expert in various advanced AI concepts including state of the art **DL networks**, **NLP** and **Reinforcement Learning**.

## 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 –Jan 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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