Parismita Das

Website | Github | Linkedin das.parismita@gmail.com | Contact No: +91 9435660716

INTEREST

Application of Machine Learning and Statistical Modelling in the field of Robotics.

FDUCATION

IIT GUWAHATI | BTECH IN ENGINEERING PHYSICS

2015-19 | Guwahati, India

Minor in Electronics Communication Engineering

CHANDERBALA MODI ACADEMY | SENIOR SECONDARY, CBSE BOARD, SCIENCE

2015 | Gujrat, India

WORK EXPERIENCE

IRONA, AN AUTONOMOUS CLEANING ROBOT | POBOT LABS

July, 2019 - Present

• Computer vision module of Irona consist of static object detection and obstacle avoidance

MAXIMUM MARGIN INTERVAL TREES | THE R FOUNDATION FOR STATISTICAL COMPUTING

2018

Google Summer of Code Internship

[GSoc | Documentation | Github]

• Created R Package using Partykit, to implement Regression Tree, Pruning, Adaboost and Random Forest along with Cross-Validation.

TRADE INFORMATION MANAGEMENT SYSTEM | CITICORP SERVICES

May 2018 - July 2018

Software Engineering Intern

• Created Dashboard to help the makers and checkers for processing the trade related documentations using Angular and REST services.

RFSEARCH EXPERIENCE

RECONSTRUCTION OF EM SHOWER AND π^0 IN THE DUNE ND ECAL

Aug 2017 - May 2019

Bachelor's Thesis, IIT Guwahati

Advisor: Prof. Bipul Bhuyan

• Reconstruction of gamma showers in neutral pion decay using Pattern Recognition and Machine Learning. [Project Page]

PROJECTS

RAMAN, THE HUMANIOD | 41 LABS, IIT GUWAHATI

May 2017 - Present

• An Computer Vision and Speech aided Social Upper-Body Humanoid.

[Github | Website]

FAIR MINIBOT | THE AUTONOMOUS INTELLIGENT BOT

Jan 2017

• A Ball following bot using image processing and Robot Operating System (ROS)

[Github | Website]

HDLSS ANALYSIS OF GENE TO DETECT CANCER

Aug 2016 - Sept 2016

Coursework Project: Advance Machine Learning, IIT Guwahati

• Cancer state detection by High Dimension Low Sampling by reducing a 49K feature matrix to 100, using Glmnet.

OPEN SOURCE

THE R FOUNDATION FOR STATISTICAL COMPUTING | INTERVAL REGRESSION PACKAGE MMIT

[Github]

CLOUDCV | EVALAI, A PLATFORM FOR HOSTING AI CHALLENGES

[Github]

CONFERENCES

INDO-US NEUTRINO COLLABORATION MEETING IN TIFR

SKILLS

PROGRAMMING LANGUAGES C++, C, Python, R, Android*, Java*

DATABASE MANAGEMENT MySQL, Django

SOFTWARE PACKAGES OpenCV, Theano, Keras, Tensorflow, Pytorch*, Geant4

MIDDLE-WARE Robot Operating System (ROS)

WEB TECHNOLOGIES HTML, CSS, JavaScript, Ajax, JQuery, PHP, Angular

* Elementary proficiency

COURSEWORK

COMPUTER SCIENCE Advanced Machine learning (Deep Learning), Pattern Recognition and Machine Learning, Game Theory, Introduction to Computing

MATHEMATICS Linear Algebra and Real Analysis, Differential Equations, Complex Analysis, Partial Differential Equations, Discrete Maths

ELECTRONICS Signals and Systems, Digital Circuits, RTL and Microprocessors, Digital Signal Processing, Communications

PHYSICS Computational Physics, Quantum Information and Cryptography, Cosmology, Quantum Optics
OTHERS Human Resource Management

POSITION OF RESPONSIBILITY

HEAD OF PROJECT RAMAN, THE HUMANOID, ROBOTICS CLUB, 41 LABS, IIT-GUWAHATI. 2018 HEAD OF COMPUTER VISION TEAM OF HUMANOID, ROBOTICS CLUB, 41 LABS, IIT-GUWAHATI. 2017 PROJECT MANAGER AT ROBOTICS CLUB, IIT-GUWAHATI. 2017

EXTRA CURRICULAR

59/109 Position in Open Image 2019 - VRD (Ongoing)