DIPTA CHATTERJEE

MSC DATA SCIENCE

KALYANI UNIVERSITY,FINAL SEMESTER

EDUCATIONAL HISTORY

- Class 10 Score:82%,School:Ramkrishna Mission Barrackpore
- Class 12:Score:79 %,School:Chatra Nandalal Institution(PCM)
- Bsc.Physics:Score:69 %,College:City College
- Msc Data Science:Avg Sgpa:8.42 after 2 sem. University:Kalyani University

ABOUT ME

An independent and self motivated student with the urge for learning new topics and experienced in working in Data analysis with statistics and looking for a job and internship opportunity in the field of Data science,Data Engineering and Robotics that involves Machine learning,Deep learning,Computer vision and enabling technologies to handle Big data.

INTERNSHIP EXPERIENCE

RESEARCH INTERN[UNDER PROF. PAPITA DAS)

JADAVPUR UNIVERSITY(CE)(15TH DEC 2021-MARCH 14 2022)

- Designed a GAN (Python) model to generate synthetic tabular data with mean absolute error of 9.13 and R2 score 0.89
- Designed a Artificial neural network(Python) model to predict percentage of toxin removed from water
- Comparing the results GAN and ANN
- Applying Genetic algorithm(Python)
- RSM optimization with R(Minitab)
- One-way ANOVA were carried out(Minitab)
- Link:https://github.com/Dipta-novice/Research-internship-under-Prof.-Papita-das-JU-CE-/tree/main

RESEARCH INTERN (UNDER PROF DIPANKAR DAS)

JADAVPUR UNIVERSITY(CSE)(28TH DECEMBER-5 TH APRIL 2022)

Working under prof Dipankar Das(CSE) to perform the following tasks

- Dataset preparation by webscrapping with Beautifulsoup(python) from website https://counselchat.com/
- Designed Bert and T5 based single talk run Chatbot algorithm with nearly 96 % accuracy
- Link:https://github.com/Dipta-novice/Research-internship-under-Prof.-Dipankar-Das-JU-/tree/main

RESEARCH INTERN(UNDER DR.DEBARKA SENGUPTA)

IIITDELHI(16 FEB 2022-PRESENT)

- Finding out different techniques to identify Cell types based on genes and studying the factors and mutation of the abnormally expanding clusters and malignant clones

PROJECT INTERN (UNDER PROF BHASWATI GANGULY)

CALCUTTA UNIVERSITY(FEB 22-PRESENT)

- Project Intern at University of Calcutta for the USAID project under LISA 2020.
- Studying attenuation effect and soiling effect of Solar energy plants of india across different locationsvarious locations.

Link: https://github.com/Dipta-novice/Analysis-Of-NASA-MODIS-Data-

ROBOTICS INTERNSHIP

SPACE ACADEMY (11-26 MARCH 2022)

Desiging Circuits and writing Codes for following robots in the online console provided by the Company

- 1.Joystick controlled robot
- 2.Obstacle avoiding robot
- 3.Line following robot

QUANTUM COMPUTATION PROJECT INTERNSHIP

UNDER ANIRUDDHA BISWAS (1 ST APRIL 2022-PRESENT)

Goal is to finding ways to solve Classical Optimization problems with Quantum Computing methods like Qiskit and Dwave.

PERSONAL PROJECTS

COMPUTER VISION PROJECT
(FEB 22)

- Building a End to end application that tells wheather a shop is open or closed from its images
- Verifying wheather the image is from the same shop or not
- Tools used:Inception,Image Augumentation

https://github.com/Dipta-novice/CV-Retail-disruption

AWS PROJECT

- Access the Women's Clothing Reviews dataset files hosted in an S3 bucket
- Install and import AWS Data Wrangler
- Register dataset files with the AWS Glue Catalog
- Write SQL queries to answer specific questions on your dataset and run your queries with Amazon Athena
- Return the query results in a pandas dataframe
- Produce and select different plots and visualizations that address your question

https://github.com/Dipta-novice/Coursera-Practical-Data-Scientist-Course/blob/main/Pds_Aws_assignment_W1.ipynb

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LITERATURE REVIEW ON XAI
(FOR MY MSC 3RD SEMESTER EXAM)

- Working on making a Literature Review Paper on Explainable and Interpretable AI to submit for my Msc 3rd semester exam.

Github Repo: https://github.com/Dipta-novice?tab=repositories

CERTIFICATIONS:

- The Python Mega Course 2022: Build 10 Real-World Programs(UDEMY)
- Machine Learning A-Z™: Hands-On Python & R In Data Science(UDEMY)
- The Complete SQL Bootcamp 2022: Go from Zero to Hero(UDEMY)
- KPMG Data Analytics Internship
- Apache Spark(Udemy)
- Computer Vision(Kaggle)

RESEARCH INTEREST:
- Robotics
- Explainable AI
- Quantum Machine learning
- Climate Crisis

TECHNICAL SKILLS

- **Programming languages:** Python,C,R

- **Dbms tools:** Mysql,Postgresql
- **Data Analysis tools:** Excel,Numpy,Panda , Matplotlib,
- **Machine learning & Deep learning tools:** Scikitlearn,Tensorflow, Keras

- **Model Deploying Tool:** Streamlit
- **Language & Vision Tools** Nltk,Bert,OpenCV, Transfer learning models
- **Webscrapping tool:** Beautifulsoup
- **Cloud Tools:** Amazon Athena,Amazon S3, Aws Data Wrangler,Aws Glue catalog
- **Basic Statistics Tools:** Minitab