





Pragyan Jyoti Dutta

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ABOUT ME

As a Master's student in Data Science and AI at the University of Liverpool, backed by a Data Science Diploma from IIT Madras and a Bachelor's in Physics from Tezpur University, my academic journey is marked by a blend of rigorous training and practical application. My experience spans leading innovative projects in healthcare and astronomy, including authorship of an IEEE Xplore research paper. In my professional tenure as a Data Engineer at DaaS and an ML researcher at Spartificial, I've developed a strong foundation in team collaboration and independent problem-solving. I excel in leadership roles, consistently guiding teams through complex projects with a focus on clear communication and adaptability to changing scenarios. My approach combines analytical rigor with a keen understanding of team dynamics, ensuring that both technical challenges and team objectives are met with equal proficiency.

EDUCATION

University of Liverpool, United Kingdom MSc. in Data Science and Artificial Intelligence	Sept 2023 - Aug 2025
Indian Institute of Technology, Madras, India Online Diploma in Data Science	Jan 2022 - Sept 2023 GPA: 7.75/10.0
Tezpur University, India BSc. in Physics	Oct 2020 - Jun 2023 GPA: 8.06/10.0
Delhi Public School, Digboi, India Higher Secondary	May 2018 - Jun 2020 Percentage: 95.67%

WORK EXPERIENCE

Developer As a Service(DaaS) - Team Data Engineering Intern - Remote	Aug 2022 - Feb 2023 Online, India
<ul style="list-style-type: none">Conducted data mining using OCRs, Machine Learning models, and Regex models on unstructured pixelated image legal documentsCollaborated with my team to create a full stack ecosystem for advanced legal research servicesEmployed strong communication and leadership skills to foster collaboration with clients and team members, resulting in the successful delivery of customized solutions. This initiative led to an impressive 80% increase in efficiency for legal document processing within the firm.	
Spartificial - Team Online, Machine Learning Training + Research Internship	Jun 2022 - Sept 2022 Online, India
<ul style="list-style-type: none">Training: Learned about RNN, Neural Networks, TensorFlow, OpenCV, Image Segmentation etcResearch: Pulsar Candidate Recognition using Machine Learning and RNN	
Society for Space Education and Research - Team Online, Research Internship	Nov 2021 - Dec 2021 Online, India
<ul style="list-style-type: none">Worked on a project titled, "Indirect methods to determine the fundamental properties of a Stellar-mass black hole and the discrepancies found in the measurement."	
The Sparks Foundation Internship	Sept 2021 - Oct 2021 Online, India
<ul style="list-style-type: none">Performed Exploratory Data Analysis on a bunch of datasetsLearned about Supervised and Unsupervised Learning	
Naxxatra Sciences and Collaborative Research - Team Summer Internship	Aug 2021 - Oct 2021 Online, India
<ul style="list-style-type: none">Worked on a project titled, "Analyzing the forest cover of India and land usage pattern of the last decade using Python" that helped the stakeholder to better understand the forest cover of India and change their policies accordingly	

PROJECTS

Sentiment Prediction on Movie Reviews MLP Project , IIT Madras	Jun 2023 - Aug 2023 Click to view
<ul style="list-style-type: none">Worked on a Natural Language Processing project that aimed at predicting the sentiment of a movie based on its review by various reviewers using Machine Learning models	
Online Grocery Store WebApp- GROCIFY MAD-1 Project , IIT Madras	Jun 2023 - Aug 2023 Click to view
<ul style="list-style-type: none">Created "Grocify," a community-centered e-commerce grocery web app utilizing Flask, HTML, CSS, and Bootstrap, innovatively merging traditional grocery shopping with online convenience. Drove personalized shopping experiences and precise promotions through advanced analytics, elevating user satisfaction and product excellence.	
Classifying Pulsar Stars using Machine Learning and Neural Networks Dr. Susheela Dahiya , UPES Dehradun	June 2022 - Sept 2022 Click to view Report
<ul style="list-style-type: none">Worked under the guidance of Dr. Susheela Dahiya to classify pulsar stars using Machine Learning	

Indirect methods to determine the fundamental properties of a Stellar-mass black hole

SSERD, Online

Nov 2021 - Dec 2020

[Click to view Report](#)

- Analyzed the various measurable parameters of a Stellar Mass Black Hole
- Gave a review of the discrepancies found in the various measurement techniques being used currently

Chronic-Kidney-Disease-Prediction-using-Machine-Learning

April 2021

Independent Project

[Click to view Notebook](#)

- Predicted the chances of a person having Chronic Kidney Disease considering various parameters
- Used Logistic Regression, KNN, Decision Trees, and RandomForest algorithms

Other Projects

- **FB-add-campaign-analysis** [↗](#) : Analyzed FB ad campaigns data and suggested ways to optimize them
- **Analyzing India's Forest Cover of the last decade** [↗](#) :

TECHNICAL SKILLS

Programming languages: C++, Python, Java, R

ML/AI: Pytorch, Numpy, Pandas, Matplotlib, Scikit-learn, Keras

Web Technologies: HTML, Django, React

Miscellaneous: MySQL, Git, Shell, Latex, PowerBI, Tableau, MS-Office, Excel, Office

SOFT SKILLS

Communication: demonstrated excellent communication skills to facilitate collaboration and successfully deliver customized solutions in team projects.

Adaptability: Displayed adaptability by taking on various roles, from data mining to research, in different projects for DaaS, and research projects for Spartificial, Naxxatra.

Problem-Solving: Proficiently utilized problem-solving skills in tasks like data analysis, machine learning, and project development.

Teamwork: Successfully collaborated with team members on various projects, ensuring the attainment of shared objectives and the delivery of high-quality work.

Leadership: Orchestrated and led cross-functional teams to deliver successful solutions, resulting in a 20% improvement in project efficiency. Served as the team leader for my DaaS (Data as a Service) team, overseeing a 4-member group, and provided strategic direction that led to a 80% increase in efficiency for the firm. Additionally, I assumed leadership of the research group at Spartificial, where I guided a team of 3 researchers.

Time Management: Effectively managed time to meet project deadlines and ensure project efficiency. Successfully balanced concurrent commitments, including pursuing a B.Sc. in Physics at Tezpur University and completing a Diploma in Data Science from IIT Madras, demonstrating exceptional time management abilities.

Resilience: demonstrated resilience in handling challenges and contributing to the successful completion of projects.

Cultural Sensitivity: Recognized the importance of cultural sensitivity in diverse work environments in DaaS and Spartificial, contributing to effective teamwork and project outcomes

PUBLICATIONS

IEEE Xplore: Health Risk Detection through Web App using Machine Learning

April 2022

[Publication link](#)

- The main motive of this project was to help the general people who are unaware of the technologies and can easily use it through the web app present online which has all the features to detect the disease at an early stage using ML techniques of Naive Bayes and RandomForests.

RELEVANT CERTIFICATIONS

Generative AI with Large Language Models

[Certificate Link](#)

DeepLearning.AI

- Obtained foundational knowledge, practical skills, and a functional understanding of generative AI, gaining insights into the latest research and how companies leverage cutting-edge technology for value creation.
- Benefited from expert instruction by AWS AI practitioners actively involved in building and deploying AI for real-world business applications.

Deep Learning with PyTorch: Object Localization

[Certificate Link](#)

Coursera

- Developed essential skills through this course, including the ability to create customized datasets for localization tasks, augment data effectively for improved model performance, and utilize pre-trained models efficiently, also mastered the creation of training functions and evaluators, streamlining the training process.