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Top Skills

RAG Model
Vector Databases
Prompt Engineering

Certifications

Machine Learning
Problem Solving (Intermediate)
Introduction to C++
GAIT Online Program IT
Professional - Silver
AWS Machine Learning Engineer
Nanodegree

Publications

Hyperspectral Image Compression
using Modified Convolutional
Autoencoder

Sancharika Debnath

Passionate Data Scientist || Machine Learning|| AI || Innovator in
Emerging Technologies
Kolkata, West Bengal, India

Summary

Welcome to my professional journey! I'm Sancharika Debnath, a dynamic Data Scientist driven by a fervent enthusiasm for leveraging cutting-edge technology to craft innovative solutions. With a solid foundation in data science and backend development, I specialize in translating complex data into actionable insights and robust systems.

My career has been an exhilarating exploration of possibilities, from developing agile event systems integrated with facial recognition for seamless attendance management to architecting custom APIs for large-scale data retrieval. At Giggr Technology, I spearheaded the development of a transformative event system, achieving an impressive accuracy rate of 87.4% through a blend of OpenCV, YOLO, and Deep-Face technologies.

In my tenure at Leapon, I honed my backend development skills, crafting tailored solutions using Python, Django, and AWS to optimize website performance and enhance user experiences. This experience instilled in me the importance of precision and scalability in every project I undertake.

As a Data Science Intern at Maersk Global Service Centres, I delved into predictive analytics and optimization, devising algorithms to forecast container turn times and enhance logistical efficiency. My passion for exploring the intersections of data and technology led me to HighRadius Corporation, where I pioneered a regression invoice prediction system, leveraging machine learning models for streamlined financial operations.

Outside of the corporate realm, I'm an avid contributor to the tech community, with publications in esteemed journals such as the International Journal of Computational Intelligence Systems. My recent research on Hyperspectral Image Compression

and Classification, achieving a remarkable accuracy of 99.8%, underscores my dedication to pushing the boundaries of innovation.

I thrive in collaborative environments where creativity meets technical prowess, and I'm eager to connect with like-minded professionals and organizations committed to driving meaningful change through data-driven insights. Let's embark on a journey of innovation together!

Experience

Data Scientist

February 2024 - Present (4 months)

Giggr - The Future of Work

Data Scientist

July 2023 - February 2024 (8 months)

Bengaluru, Karnataka, India

- Responsibility: Integrated experience in artificial intelligence, data science and graph database architecture to deliver comprehensive solutions
 - Engineered an innovative data-driven event system integrating facial recognition for attendance tracking and object detection for gamification purposes. (Accuracy: 87.4)
 - Integrated GPS functionality to facilitate user navigation to the event venue, enhancing overall user experience and convenience.
 - Guided the team in developing a Neo4j architecture, quickly acquiring intermediate proficiency. Collaboratively integrated it into the project ecosystem, enhancing data management and analytics capabilities while teamwork.
 - Crafted and worked independently to create custom public API from scratch, prioritizing data security while utilizing S3 and Elasticsearch to efficiently search through a dataset of over 1.3 million education institutes across India.
 - Designed and implemented a quiz chatbot for digital maturity evaluation using Dialogflow, featuring a sophisticated scoring system and seamless Firebase integration, enriching user interaction and data functionality.

Leapon

Back End Developer

February 2023 - June 2023 (5 months)

Remote

- Responsibility: Constructed and developed the Backend architecture for the entire website personalised for 50+ advisor connectivity.
- Developed REST APIs to facilitate seamless communication between the frontend and backend systems and integrated A/B testing frameworks to analyze user interactions and optimize feature performance.
- Utilized CI/CD pipelines to streamline the development process, ensuring rapid and reliable deployment of new features and updates, thereby enhancing advisor networking by up to 60% with effective decision support.

A.P. Moller - Maersk

Data Science Intern

July 2022 - February 2023 (8 months)

Bengaluru, Karnataka, India

Worked on various data science related and web development related real life projects.

- Created an end-to-end web application for pre-booking seats in office premises using springboot, next.js and internal UI developer, Anchor UI.
- Clustering of ports based on predominant features using different clustering techniques (Best Model : Gaussian Mixture).
- Prediction of container turn time considering time series effects of the data.
- Prediction of change in attachment ratio percentage using various AutoML (Best Model : FLAML).

HighRadius

Data Sceince Intern

January 2022 - April 2022 (4 months)

Bhubaneswar, Odisha, India

Developed an Automation invoice prediction system.

- Using machine learning algorithms (Best Model: XGBoost) for prediction of invoice clearance date.
 - JDBC, and React JS was used on a real world transaction database for an interactive web page.
- (Accuracy: 76.15)

The Sparks Foundation

Data Science & Business Analytics Intern

July 2021 - August 2021 (2 months)

- Prediction of student performance Using Supervised Machine Learning Algorithm
- Achieved accuracy rate of 95.5

Ativeer Tech

Data Science Intern

June 2021 - July 2021 (2 months)

- Product appending in the website back-end
- Used WordPress and Wix to represent product details for more than 150+ products

Education

Kalinga Institute of Industrial Technology, Bhubaneswar

4th, year, Information Technology · (July 2019 - July 2023)

Kendriya Vidyalaya

· (2007 - 2019)