Sayan Sasmal

Kolkata, West Bengal, 721136 Mail – mr.sayansasmal18@gmail.com Mobile – 8167753469 LinkedIn

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Aspiring Data Analyst with hands-on experience in Data Analysis, Data Visualization, and Machine Learning. Skilled in transforming complex datasets into actionable insights using tools like Python, SQL, Excel, Power BI. Adept at building predictive models, interpreting data trends, and delivering business-focused solutions.

Education

College of Engineering & Management, Kolaghat Sept 2022 – June 2026

B.Tech in Computer Science & Engineering

- GPA: 8.46/10
- **Coursework:** Data Structure & Algorithm, Operating System, Database Management System etc.

Skills

Programming Languages:
Python, SQL, Java (basic**)**
Data Analysis & Visualization:
Pandas, NumPy, Matplotlib, Power BI
Machine Learning & Deep Learning:
Scikit-learn, Tensorflow, CNN, Logistic Regression, KNN, SVM, Random Forest, Naive Bayes
Natural Language Processing:
TF-IDF, Text Preprocessing, Feature Extraction
Tools & Platforms:
Jupyter Notebook, MS Excel, Google Colab, Github, VS Code
Databases:
MySQL (basic)
Concepts:
Supervised Learning, Classification, EDA, Data Preprocessing, Data Cleaning

Experience

Research Intern

Indian Institute of Technology, Kharagpur Dec 2024 – Present

- Gained hands-on experience in Edge Computing, Neural Networks, and Deep Learning. Explored advanced research concepts, contributing to the development of efficient computational models and intelligent systems.

Data Analyst Intern

Unified Mentor May 2025 – Present

- *Working on multiple real-world datasets involving data cleaning, analysis, and visualization.*
- ***TCS Stock Data*** *– Processed live stock data to track performance trends.*
- **IBM HR Analytics** – Explored employee attrition and performance using ML models.

Projects

Netflix Data Analysis Github

- Analysed the Netflix dataset to uncover insights about content trends, genres, release years, and ratings.
- Performed data cleaning, wrangling, and exploratory data analysis (EDA) using Pandas and NumPy.
- Visualized trends and patterns using Power BI.

Skin Disease Detection Github

- Developed a CNN-based image classification model using PyTorch to detect various skin diseases from dermatological images.
- Pre-processed image datasets, applied label encoding, and performed data augmentation to improve model generalization.
- Applied deep learning best practices and optimized the model architecture for improved accuracy and efficiency.

Fake News Detection System using Machine Learning Github

- Built a machine learning model to classify news articles as real or fake using natural language processing techniques.
- Gained hands-on experience in NLP pipelines, feature extraction (TF-IDF), and binary classification tasks.

Certification

Certificates

Machine Learning – NPTEL Aug 2024 – Oct 2024

- Completed a 12-week course focusing on ML algorithms, Deep Learning, and CNN.

OOPs in Java – Coding Ninjas July 2024 – Sept 2024

- Completed Object-Oriented Programming using Java through guided path learning.

Database Management Systems – NPTEL Jan 2025 – March 2025

- Covered core DBMS concepts including relational models, normalization, and SQL operations.