SAYONY CHAKRABORTY

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Portfolio: sayonys-portfolio.vercel.app

Objective: Aspiring Data Scientist with hands-on experience in Python, SQL, and Web Development. Currently a Data Analyst Intern at *Goldfinn Technologies*. Passionate about leveraging data to solve real-world problems through machine learning, deep learning, and data visualization projects.

PROJECTS

- **API Testing & Documentation – Docs: https://bit.ly/4miiB8f**
- **Titanic Survival Prediction – Machine & Deep Learning – (Scikit-Learn, PyTorch, Streamlit)**
  Built a machine learning and deep learning model to predict Titanic passenger survival using Scikit-learn (Decision Tree) and PyTorch (Neural Network).
  GitHub : https://github.com/sayonyyy/titanic-survival-prediction
- **Trade Forecasting (2025) – Linear Regression & ARIMA – (Pandas, Scikit-Learn, Statsmodel)**
  Developed a trade forecasting model using UN Comtrade data, applying Linear Regression for trend analysis and ARIMA for time-series patterns to generate reliable import–export forecasts for 2025.
  GitHub : https://github.com/sayonyyy/trade-export_import
- **Patternova – ML-Based Kolam Generation Backend — (Python, PyTorch, OpenCV)**
  Developed an ML-powered backend for generating Kolam patterns from dot inputs, combining OpenCV-based dot detection with a U-Net image-to-image model. Included a full training and inference pipeline, data augmentation, grid alignment, and SVG-based stroke generation for smooth, vectorized outputs.
  GitHub: https://github.com/sayonyyy/art_kolam
- **Singer Portfolio Website – Client Project – (HTML, CSS, JavaScript, Responsive Design)**
  Built a responsive portfolio website for a professional singer.
  Live: http://arbaaz-hossain.vercel.app | GitHub: https://bit.ly/3GQMmxF
- **Endless Car Runner Game – (JavaScript, Three.js, WebGL)**
  Developed a 3D web-based endless runner featuring dynamic road generation, enemy cars, collectibles, and immersive scenery with responsive controls, real-time scoring, and optimized 3D rendering for smooth gameplay across devices.
  Live: http://3d-car-runner.vercel.app | GitHub: https://github.com/sayonyyy/3d-car-runner
- **Kartella – Learning & Lifestyle Ecosystem – (HTML, CSS, JavaScript)**
  Built a student-focused platform offering academic and non-academic certification courses (e.g., baking, music, makeup), integrated with shopping, service booking, exclusive student benefits, and creator monetization features.
  Live: http://kartella.vercel.app | GitHub: https://github.com/sayonyyy/Kartella

ACADEMIC QUALIFICATION

- **B.Sc. in Data Science: Techno India University – 2027 (Pursuing)**
- **Class 12 (ISC): St. Paul's Boarding & Day School – 2023**
- **Class 10 (ICSE): St. Paul's Boarding & Day School – 2021**

Relevant Coursework: Operations Research, Probability & Statistics, Python Programming, SQL, Machine Learning.

CERTIFICATIONS

Completed courses under Skills Academia – Session 14 (2024) | Certificate: https://bit.ly/4kFdAFi -
• Web Development • UI/UX Design Fundamentals • Public Speaking

TECHNICAL SKILLS

- **Languages:** Python, SQL, Java, R, HTML, CSS, JavaScript
- **Python Libraries:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, PyTorch
- **Tools & Technologies:** Git, GitHub, Vercel, Power BI, MS Office, MongoDB, Postman, Swagger
- **Concepts:** Data Analysis, API Testing & Documentation, Machine Learning, Web Development, UI/UX Basics
- **Operations Research:** Linear Programming, Assignment Problems, Transportation Models, Network Analysis

LANGUAGES

• English • Bengali • Hindi