

SAYAN GHOSH

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- **Portfolio** : sayanghoshwebml.netlify.app

CAREER OBJECTIVE

Results-driven Computer Science graduate with hands-on experience in developing and deploying machine learning models and computer vision applications. Skilled in Python, Scikit-learn, OpenCV, and SQL. Completed an internship in predictive analytics at Celebal Technologies, contributing to real-world ML pipelines. Interested in turning data into real-world AI solutions, with a focus on model performance and interpretability.

TECHNICAL SKILLS

- **Languages**: Python, SQL, HTML, CSS
- **Libraries & Frameworks**: Scikit-learn, OpenCV, Pandas, NumPy, TensorFlow, Streamlit, Seaborn, Matplotlib
- **Databases**: Oracle SQL, PL/SQL
- **Tools**: GitHub, JIRA, Excel, PowerPoint, Canva
- **Concepts**: Machine Learning, Data Preprocessing, Model Evaluation, SDLC (Agile), Data Structures & Algorithm

PROJECTS

- **Real-Time Lane Detection System | OpenCV Project | June 2023 – Jul 2023**
 - Built a computer vision pipeline to detect lane lines in videos using edge detection, masking, and region-of-interest filtering
 - Achieved real-time processing speed (~30 FPS) on recorded highway video data
 - Applied Canny edge detection and color thresholding robustness to enhance detection
 - Tools: Python, OpenCV, NumPy, Matplotlib
 - **GitHub**: github.com/sayan-ghosh10/Lane-Line-Detection-Using-Open-CV

➤ **IPL Match Win Prediction Engine | Streamlit App | Dec 2022- Jan 2023**

- Developed and deployed a predictive ML model using Logistic Regression to forecast IPL match outcomes
- Achieved ~84% accuracy with cross-validation on cleaned historical data
- Designed an interactive UI using Streamlit for real-time match predictions
- Tools: Python, Matplotlib, Streamlit, Pandas, Scikit-learn
- **GitHub:** github.com/sayan-ghosh10/IPL-MATCH-WIN-PREDICTOR-using-Machine-Learning

EXPERIENCE

➤ **Data Science Intern – Celebal Technologies
May 2023 – Jul 2023**

- Collaborated on building predictive ML models for client business use-cases (classification, regression)
- Conducted data cleaning, feature engineering, and model evaluation (accuracy, confusion matrix, AUC)
- Documented results using Excel and presented findings to project leads using PowerPoint
- Tools: Python, Scikit-learn, SQL, Excel, JIRA

EDUCATION

➤ **Bachelor of Technology | Computer Science & Engineering | Dec 2020 – Jul 2024**

- **College :** Asansol Engineering College, West Bengal
- **CGPA:** 7.95 / 10
- **Relevant Coursework:** Machine Learning, Data Structures, DBMS, Algorithms, OOP

LANGUAGES

- English (Fluent)
- Hindi (Fluent)
- Bengali (Native)