Shabbir. M Tashrifwala

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About Me:

I am a dedicated student with a consistent academic record. I've always been fascinated by understanding how and why things work, especially in the world of technology and artificial intelligence. My journey so far has been defined by an analytical mindset, consistent academic performance, and an eagerness to explore how artificial intelligence can shape the world. I aspire to contribute to innovative research that combines analytical thinking with creative problem-solving

Education:

St. Mary's ISC, Mumbai *April 2024 – March 2026*
Currently studying in ISC Standard 12

- Grade 10: 92.8 %
- Grade 11: 92.9 %
- **Predicted Grade ISC (12th) Score: 95.6 %**

Projects:

I. ***Adversarial Robust Deepfake Detection***
Robust deepfake detector built around adversarial trained EfficientViT, targeting resilience to common artifacts and attacks. Leverages texture, lighting, and frequency inconsistencies; explains decisions with Grad-CAM heatmaps. Cross-dataset training/evaluation (FF++, Celeb-DF) with PGD/U-Net attacker loops and ROC-AUC/TPR@FPR metrics.

Github:

II. ***Churn Prevention with Survival Analysis and Next Best Action***
Built an end to end churn prevention system using survival analysis to predict when customers churn. Compared interpretable CoxPH with a high performance Gradient Boosting survival model after Kaplan Meier and log rank analysis. Validated with C index, time dependent Brier score, and lift by decile to quantify accuracy and business

impact. Deployed a batch scoring pipeline, a FastAPI prediction API, and a Next Best Action framework for targeted retention.

GitHub: https://github.com/Shabbir-Tashrifwala/Churn-Prevention-with-Survival-Analysis-and-Next-Best-Action

III. ***ASL Fingerspelling to Text***

Built an end to end churn prevention system using survival analysis to predict when customers churn. Compared interpretable CoxPH with a high performance Gradient Boosting survival model after Kaplan Meier and log rank analysis. Validated with C index, time dependent Brier score, and lift by decile to quantify accuracy and business impact. Deployed a batch scoring pipeline, a FastAPI prediction API, and a Next Best Action framework for targeted retention.

GitHub: https://github.com/Shabbir-Tashrifwala/ASL-Fingerspelling-to-Text

Technical Expertise:

Programming Languages:
C, C++, Java, Python

Frameworks & Libraries:
PyTorch, NumPy, pandas, scikit-learn, OpenCV

Core Concepts:
Data Structures and Algorithms in C++, Standard Template Library (STL)

Tools/Platforms:
Jupyter Notebook, Google Colab

Awards:

Olympiads & Achievements:

- Qualified for INAO Stages 1, 2, and 3
- Selected for IAIO Training Camp (Top 22 in India)
- Second Runner-up, IOAI Training Camp (Top 12 in India)

Extra Curricular Activities::

Certifications & Specializations:

- Machine Learning Specialization by Andrew Ng
- Deep Learning Specialization by Andrew Ng
- Fast.ai by Practical Deep Learning for Coders
- CS50x: Introduction to Computer Science by Harvard University

Sports Achievements:

- Silver Medal - State-level Karate Tournament
- Represented India in International Karate Tournament held in Philippines

Leadership:

- School Leader: Appointed as representative of the student body
- Event Head: Immaculata, Mumbai's largest interschool cultural festival

Team Leader: EUMIND International Exchange led winning team for Best Article Award

Areas of Interest: Artificial Intelligence, Machine Learning, Deep Learning, NLP, Computer Vision, Data Science, Generative Models, Reinforcement Learning