

Ribbon FLATR



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PURPOSE/GOAL: Our goal is to use federated learning to create a model that can identify important features that contribute to call quality in a Call Detail Record (CDR) while protecting user data. Then we implemented explainable AI features to visually represent the findings from our model.

APPROACH: Distributed tasks among team members for researching and implementing federated learning strategies across various datasets and queries. Following thorough testing, we integrated multiple federated learning models into a Streamlit application to visualize key features driving model predictions.

TOOLS/RESOURCES: Putty, WinSCP, Visual Studio Code, SQL, Python, Flower, Linux/Bash, Jupyter Notebook, Microsoft Teams, Streamlit, Ribbon Analytics Tool

