Executive Summary: Diabetes Prediction App

- Full-stack web app with ML & Tableau for diabetes prediction

- Used Pima Indian Heritage dataset

- Preprocessed with imputation, scaling, and SMOTE for balance

- Tested multiple models; Random Forest chosen for deployment

- Built Flask app with ML inference and embedded dashboards

- Dashboard 1: Demographics & outcomes

- Dashboard 2: Health metrics and correlations

- App helps answer questions on diabetes risk patterns

- Limitations: class imbalance, no male patients, limited features

- Future Work: add more features, explainability, user auth, better UI