

# ALEP: ADVANCED LOAN ELIGIBILITY PREDICTOR

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## **Abstract**

ALEP (Advanced Loan Eligibility Predictor) is a sophisticated tool designed to refine the loan approval process. Developed using a Random Forest algorithm, ALEP evaluates potential borrowers based on factors such as income, employment status, and credit history. This automated system predicts the likelihood of applicants fulfilling their loan obligations by learning from historical data, ensuring decisions are both accurate and fair. By efficiently processing complex data, ALEP not only accelerates decision-making but also enhances transparency in loan approvals. Ideal for financial institutions aiming to modernize their operations, ALEP provides a reliable, user-friendly solution that simplifies and streamlines the lending process.

**Tech stack:** React, Flask, SQLite

**Project Advisor:** Prof. G. Dimitoglou