

Department of Computer Science and Engineering

PREDICTIVE ANALYTICS SYSTEM FOR SMALL BUSINESS BANKRUPTCY RISKS

Preethaa U (311521104033)

EXTERNAL GUIDE:

INTERNAL GUIDE:

**Dr. B. Monica Jenefer,
Professor, CSE**

Mrs. S.Jenita Karthiga, Senior Technical Associate.

**COMPANY NAME:
Skyware Solutions Pvt. Ltd., Chennai.**

FEATURES:

- Automated Risk Scoring – Real-time bankruptcy probability scores using financial indicators.
- Portfolio Risk Monitoring & Compliance Checks – Continuous assessment of financial health with alerts.
- Interactive Dashboard & Reporting – Streamlit-based UI for visualizing risk scores and trends.
- Framework & Architecture – ML models (Random Forest, XGBoost, NLP), Big Data pipeline (ELT → Feature Engineering → Model Inference → API-driven Decisions)

