

# Meenakshi Sundararajan Engineering College (An Autonomous Institution)

## Department of Computer Science and Engineering

### PREDICTIVE ANALYTICS SYSTEM FOR SMALL BUSINESS BANKRUPTCY RISKS

Preethaa U ( 311521104033)

#### EXTERNAL GUIDE:

Mrs. S.Jenita Karthiga, Senior Technical Associate.

#### COMPANY NAME:

Skyware Solutions Pvt. Ltd., Chennai.

#### INTERNAL GUIDE:

Dr. B. Monica Jenefer,  
Professor, CSE

#### 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)

