Final Submission Document – AAI-9 Project

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GitHub Repository Link: https://github.com/nbilai/Project_B_Bilai_Nataliia

Contents of Repository

- `/use_case_documentation/` PDF file with screenshots of the completed appliedAI Use Case template

- `/policy_analysis/` Policy recommendations report with tier profiles and advancement roadmap

- `classification_notebook.ipynb` Jupyter Notebook with full multi-class classification analysis, model training, evaluation, and feature importance

Project Summary

This training project, developed as part of the Kiron Thrive program, classifies EU countries into sustainability performance tiers using supervised machine learning models (Logistic Regression and Random Forest). The analysis identifies key policy indicators across domains such as governance, innovation, and renewable energy, and provides actionable recommendations for improvement.

The AI Use Case is documented and published on the appliedAI platform, highlighting the business impact and social relevance of tier-based classification. The project supports strategic decision-making aligned with the UN Sustainable Development Goals and the EU Green Deal.

Submission Checklist

- [x] Multi-class classification accuracy >75%

- [x] Clear identification of top 5 predictive factors

- [x] Specific advancement pathways for each tier

- [x] Completed appliedAI Use Case template with screenshots

- [x] Actionable policy recommendations for EU decision-makers

- [x] Professional GitHub repository with organized documentation structure