1. RPS R.A.N.D.O.M

Explanation: A Rock–Paper–Scissors CLI game with score tracking and random computer moves.
Tech Stack: Python, random, file I/O (optional), CLI

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2. The File Forge

Explanation: A file management tool to create, read, write, append, and delete files.
Tech Stack: Python, file handling, exception handling

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3. The Book Vault

Explanation: An OOP-based library system to manage books and members.
Tech Stack: Python, OOP, file handling

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4. Gridlock Game

Explanation: A NumPy-powered Tic-Tac-Toe game with win/draw detection.
Tech Stack: Python, NumPy

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5. Performance Predictors

Explanation: EDA project analyzing student performance factors.
Tech Stack: Python, Pandas, NumPy

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6. IPL 2025 Dashboard

Explanation: Excel dashboard analyzing IPL stats and trends.
Tech Stack: Excel, Pivot Tables, Charts, Slicers

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7. HR Attrition Dashboard

Explanation: HR analytics dashboard for attrition and attendance insights.
Tech Stack: Excel / Power BI

8. E-commerce Dashboard

Explanation: Sales and profit dashboard for e-commerce analytics.
Tech Stack: Excel / Power BI

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9. AI/ML Job Pulse

Explanation: Analysis of AI/ML job market trends and salaries.
Tech Stack: Python, Pandas, Matplotlib / Power BI

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10. Customer-Centric Sales

Explanation: Power BI dashboard analyzing customer-driven sales insights.
Tech Stack: Power BI, DAX

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11. Smart Inventory System

Explanation: Inventory and billing system with analytics.
Tech Stack: Python, SQL, Matplotlib

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12. Bank System with Audit Trails

Explanation: Banking simulation with transaction logs and database storage.
Tech Stack: Python, SQL, file handling

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13. Ride Price Predictor

Explanation: Linear regression model predicting ride fares.
Tech Stack: Python, Scikit-learn, Pandas

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14. Personality Type from Traits

Explanation: Logistic regression model predicting personality types.
Tech Stack: Python, Scikit-learn

15. Experience-to-Earnings

Explanation: KNN regression model predicting salary from experience.
Tech Stack: Python, Scikit-learn

16. Mobile Market Segmenter

Explanation: KNN classifier segmenting mobile users.
Tech Stack: Python, Scikit-learn

17. Real Estate Predictor

Explanation: Decision tree model predicting property prices.
Tech Stack: Python, Scikit-learn

18. Drug Recommendation System

Explanation: Decision tree classifier suggesting medicines.
Tech Stack: Python, Scikit-learn

19. Energy Forecaster

Explanation: Random forest model predicting energy usage.
Tech Stack: Python, Scikit-learn

20. SmartHarvest

Explanation: Crop prediction system using random forest.
Tech Stack: Python, Scikit-learn

21. Lending Logic

Explanation: Naïve Bayes model predicting loan approvals.
Tech Stack: Python, Scikit-learn

22. CardioPredict

Explanation: SVM model predicting heart disease risk.
Tech Stack: Python, Scikit-learn

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23. Geo-Pulse

Explanation: DBSCAN clustering for geographic pattern detection.
Tech Stack: Python, Scikit-learn

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24. Retail Radar

Explanation: K-Means clustering for customer segmentation.
Tech Stack: Python, Scikit-learn

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25. Vineyard Voyager

Explanation: Hierarchical clustering for wine grouping.
Tech Stack: Python, SciPy, Scikit-learn

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26. PCA Wine Analysis

Explanation: PCA for wine feature reduction and visualization.
Tech Stack: Python, Scikit-learn

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27. Delivery Time Prediction

Explanation: Linear regression model predicting delivery times.
Tech Stack: Python, Scikit-learn

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28. Personality Classification

Explanation: Logistic regression for personality classification.
Tech Stack: Python, Scikit-learn

29. Student Performance Analysis

Explanation: KNN regression predicting student scores.
Tech Stack: Python, Scikit-learn

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30. Heart Disease Prediction

Explanation: KNN classifier for heart disease detection.
Tech Stack: Python, Scikit-learn

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31. Loan Approval Classification

Explanation: Naïve Bayes classifier for loan approvals.
Tech Stack: Python, Scikit-learn

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32. Financial Asset Forecasting

Explanation: Decision tree model predicting asset values.
Tech Stack: Python, Scikit-learn

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33. Health Risk Assessment

Explanation: Decision tree classifier for health risk profiling.
Tech Stack: Python, Scikit-learn

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34. Used Car Price Modeling

Explanation: Random forest model predicting car prices.
Tech Stack: Python, Scikit-learn

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35. Tennis Play Prediction

Explanation: Random forest classifier predicting match play conditions.
Tech Stack: Python, Scikit-learn

36. Parkinson's Detection

Explanation: SVM model detecting Parkinson's disease.
Tech Stack: Python, Scikit-learn

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37. Customer Segmentation (DBSCAN)

Explanation: DBSCAN clustering for spending behavior segmentation.
Tech Stack: Python, Scikit-learn

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38. Online Retail Segmentation

Explanation: K-Means clustering for retail customer groups.
Tech Stack: Python, Scikit-learn

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39. Wine Quality Segmentation

Explanation: Hierarchical clustering grouping wines by quality.
Tech Stack: Python, SciPy, Scikit-learn

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40. Dimensionality Reduction

Explanation: PCA reducing wine dataset dimensions.
Tech Stack: Python, Scikit-learn

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41. Student Performance (ANN)

Explanation: ANN predicting student academic outcomes.
Tech Stack: Python, TensorFlow, Keras

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42. ASL Digit Recognition

Explanation: CNN recognizing ASL digits from images.
Tech Stack: Python, TensorFlow, OpenCV

43. Weather Forecasting

Explanation: RNN predicting future weather data.
Tech Stack: Python, TensorFlow, Keras

44. Smartphone Price Classifier

Explanation: ANN classifying phone price ranges.
Tech Stack: Python, TensorFlow, Keras

45. Tech Logo Classifier

Explanation: CNN classifying tech brand logos.
Tech Stack: Python, TensorFlow, OpenCV

46. Gold Price Predictor

Explanation: LSTM/RNN model forecasting gold prices.
Tech Stack: Python, TensorFlow, Pandas

47. AI Discord Assistant

Explanation: Multimodal AI assistant integrated into Discord.
Tech Stack: Python, FastAPI, Discord.py, AI APIs

48. AI Code Reviewer

Explanation: AI system reviewing code via GitHub webhooks.
Tech Stack: Python, FastAPI, LangGraph

49. Automated News Curation

Explanation: AI system curating and summarizing news automatically.
Tech Stack: Python, FastAPI, APIs, TTS

50. End-to-End MLOps Pipeline

Explanation: Automated ML pipeline for training and deployment.
Tech Stack: Python, Docker, FastAPI, GitHub Actions, Cloud