1. **Exploratory Data Analysis (EDA) Portfolio**: This foundational project focuses on visualizing data effectively.
2. **Iris Flower Classification**: A beginner-friendly project that introduces the basics of classification algorithms.
3. **Build Your Own Linear Regression**: Emphasizes understanding the mechanics of linear models without relying on libraries.
4. **Titanic Survival Prediction**: A classic project that teaches data preprocessing and feature engineering using historical data.
5. **Housing Price Predictor**: This project applies regression analysis to predict property prices based on various features.
6. **Image Classification System**: Focuses on teaching computers to differentiate between images, such as dogs and cats.
7. **Sentiment Analysis System**: Involves building a tool to analyze sentiments from text data, like reviews or social media posts.
8. **Customer Churn Predictor**: A business-centric project that anticipates customer retention or attrition.
9. **Stock Price Predictor**: Engages with time series data for predicting future stock prices.
10. **Build Your Own Neural Network**: A more advanced project where learners build neural networks from scratch.
11. **Real-Time Face Recognition System**: A practical application that involves recognizing faces through image processing techniques.
12. **Recommendation System**: Focuses on building systems that suggest products or content based on user behavior.
13. **Automated ML Pipeline**: Teaches how to create pipelines that automate different stages in model training and tuning.
14. **Language Model from Scratch**: This project delves into creating a simple natural language processing model, including transformers.
15. **AB Testing Framework**: Analyzes and tests model effectiveness against various business variables.
16. **Image Generation System**: Engages with generative models, particularly GANs, for creating images.
17. **Multilanguage NLP Pipeline**: Develops systems to handle and process text in various languages.
18. **Reinforcement Learning Game**: A project that trains AI to learn and excel in a gaming environment through reward-based learning.
19. **Real-time Fraud Detection System**: Focuses on identifying suspicious transactions in financial systems using machine learning models.
20. **Build Your Own AutoML**: Encourages learners to create an automated machine learning tool that streamlines the model development process.
21. **MLOps Pipeline**: Prepares projects for deployment by ensuring that machine learning models are efficiently managed and maintained.
22. **Distributed ML System**: The pinnacle project that involves training models across multiple machines and processing large datasets in real-time.