**35-Day Machine Learning Project Challenge**

Welcome to the 35-Day ML Challenge! This challenge is designed for beginners who want to build real projects step-by-step and stay consistent without rushing. We’ll start from beginner-level projects and move towards advanced ML applications. Let’s grow together! 🚀

### 📅 Challenge Rules:

* Complete the daily/assigned project within the suggested time.
* Share your streak in the Discord channel (screenshot / GitHub link).
* React with ✅ to mark project completion.
* Help others, ask questions, and learn together.

**⏳ Flexible Timeline Note:**

While this challenge is structured as 35 days, **you can take 1.5 to 2 months** or more depending on your schedule. The goal is not to rush — the real goal is to **complete all projects with strong understanding**. ✅ Quality over speed!

### ✅ Daily Project Checklist (35-Day Realistic Plan):

#### 🟢 **Week 1: Super Beginners - Intro to ML**

| Day | Project | Level | Time |
| --- | --- | --- | --- |
| 1 | Titanic Survival Prediction | Beginner | 1 day |
| 2 | Iris Flower Classification | Beginner | 1 day |
| 3 | House Price Prediction (Linear Regression) | Beginner | 1 day |
| 4 | Student Marks Prediction | Beginner | 1 day |
| 5 | Breast Cancer Prediction | Beginner | 1 day |
| 6 | Catch-Up / Fix Day | Buffer | - |
| 7 | MNIST Digit Recognizer | Beginner+ | 1 day |

#### 🟡 **Week 2: Core ML Practice Begins**

| Day | Project | Level | Time |
| --- | --- | --- | --- |
| 8 | Loan Approval Prediction | Beginner+ | 1 day |
| 9 | Heart Disease Prediction | Beginner+ | 1 day |
| 10 | Diabetes Prediction | Beginner+ | 1 day |
| 11 | Email Spam Classifier | Intermediate | 2 days |
| 12 | (cont.) Email Spam Classifier | Intermediate | - |
| 13 | Catch-Up / Fix Day | Buffer | - |
| 14 | Movie Recommendation System | Intermediate | 1 day |

#### 🔵 **Week 3: Intermediate Level / NLP Starts**

| Day | Project | Level | Time |
| --- | --- | --- | --- |
| 15 | Sentiment Analysis (TextBlob or NLTK) | Intermediate+ | 1 day |
| 16 | Sentiment Analysis (TF-IDF + Logistic) | Intermediate+ | 2 days |
| 17 | (cont.) Sentiment Analysis | Intermediate+ | - |
| 18 | Chatbot with Rule-based NLP | Intermediate | 1 day |
| 19 | Chatbot with ML/NLP | Intermediate+ | 2 days |
| 20 | Catch-Up / Rest / Q&A | Buffer | - |
| 21 | Fake News Detector | Intermediate+ | 1 day |

#### 🔴 **Week 4: Computer Vision + Model Improvement**

| Day | Project | Level | Time |
| --- | --- | --- | --- |
| 22 | Image Classifier (Cats vs Dogs) | Intermediate | 2 days |
| 23 | (cont.) Image Classifier | Intermediate | - |
| 24 | Face Detection using OpenCV | Beginner+ | 1 day |
| 25 | Pose Estimation / Hand Tracking | Advanced | 2 days |
| 26 | (cont.) Pose Estimation / Fixes | Advanced | - |
| 27 | Catch-Up / Model Review Day | Buffer | - |
| 28 | Transfer Learning - ImageNet model | Advanced | 1 day |

#### 🟣 **Week 5: Wrap-Up + Final Projects**

| Day | Project | Level | Time |
| --- | --- | --- | --- |
| 29 | Custom Final Project - Ideation | Self-defined | 1 day |
| 30 | Final Project Building (part 1) | Self-defined | 2 days |
| 31 | Final Project (part 2) + Review | Self-defined | - |
| 32 | GitHub Portfolio Setup | Guide Day | 1 day |
| 33 | Resume / Portfolio Project Page | Guide Day | 1 day |
| 34 | Final Streak Showcase Day | Community | 1 day |
| 35 | Rest / Reflect / Celebrate 🎉 | End Day | - |

### 🚀 **BONUS: Advanced Track (Optional)**

Take this track once you’ve completed the 35-Day Challenge or if you want to go beyond! These projects are more complex and can be done in 2–4 days each.

| # | Project | Level | Suggested Time |
| --- | --- | --- | --- |
| 36 | Build Your Own Linear Regression | Intermediate | 2 days |
| 37 | Customer Churn Predictor | Intermediate | 2 days |
| 38 | Stock Price Predictor | Intermediate | 2 days |
| 39 | Build Your Own Neural Network | Advanced | 3 days |
| 40 | Real-time Face Recognition System | Advanced | 3 days |
| 41 | Language Model From Scratch | Advanced | 4 days |
| 42 | A/B Testing Framework | Advanced | 2 days |
| 43 | Image Generation System (GANs etc.) | Advanced | 3 days |
| 44 | Multi-language NLP Pipeline | Advanced | 3 days |
| 45 | Reinforcement Learning Game AI | Advanced | 4 days |
| 46 | Real-time Fraud Detection System | Advanced | 3 days |
| 47 | Build Your Own AutoML | Advanced | 3 days |
| 48 | Automated ML Pipeline | Advanced | 3 days |
| 49 | MLOps Pipeline (CI/CD for ML) | Advanced | 4 days |
| 50 | Distributed ML System | Advanced | 4 days |

### 🏠 How to Share Daily:

1. Go to #daily-project channel
2. Post: “**Day X - Done ✅**” with screenshot or GitHub link
3. React on others’ posts for motivation ✨

### 🌟 Let’s Grow Together:

* You don’t need to be perfect.
* Just be consistent.
* We’re all learners here.

**Let the 35-Day Streak Begin (At Your Pace)!** 🚀