Great! Here's a complete package for learning and teaching **Machine Learning using Scratch**, ideal for kids, students, or beginners. This includes:

**✅ Step-by-Step Scratch ML Project**

**🎯 Project Title: Emoji Predictor Based on Mood Sentence**

Using **Machine Learning for Kids + Scratch 3**

**🧩 Objective:**

Train a machine learning model to **predict an emoji** based on a sentence describing a feeling (e.g., "I am excited" → 😀).

**🛠️ Tools Needed:**

1. [Machine Learning for Kids](https://machinelearningforkids.co.uk/)
2. Scratch 3 (opens from ML for Kids project)
3. Internet browser

**🔟 Step-by-Step Instructions**

**✅ Step 1: Create a Free Account**

* Visit: <https://machinelearningforkids.co.uk/>
* Click **“Try it now”**
* Choose **“Sign in as student”** or create a class login

**✅ Step 2: Create a New Project**

* Click **+ Add new project**
* Name it: Mood to Emoji
* Choose **Text** as the training type
* Click **Create**

**✅ Step 3: Add Labels (Classes)**

Click **“Train”** tab:

* Add labels:
  + Happy
  + Sad
  + Angry

**✅ Step 4: Add Training Examples**

Click each label and add 5–10 examples:

* **Happy**
  + "I got a new puppy"
  + "Today was amazing"
  + "I love my friends"
* **Sad**
  + "I lost my book"
  + "My toy broke"
  + "I feel alone"
* **Angry**
  + "My brother broke my phone"
  + "I missed the bus"
  + "Stop bothering me!"

**✅ Step 5: Train the Model**

* Click **Train new machine learning model**
* Wait a few seconds

**✅ Step 6: Test It**

* Try entering new sentences like:
  + "I feel awesome!" → Happy
  + "Leave me alone" → Angry

**✅ Step 7: Connect to Scratch**

* Click **“Make” → Scratch 3**
* A special version of Scratch opens with ML blocks

**✅ Step 8: Design Your Sprite & Background**

* Add a character (e.g., Pico)
* Add 3 emojis as costumes (😀 😢 😡)

**✅ Step 9: Add the ML Blocks**

Use these blocks:

when green flag clicked

ask [How are you feeling today?] and wait

set [yourmood v] to (answer)

classify text (yourmood)

wait until <(result available?) = [true]>

if <(prediction) = [Happy]> then

switch costume to [happy emoji]

else

if <(prediction) = [Sad]> then

switch costume to [sad emoji]

else

switch costume to [angry emoji]

end

**✅ Step 10: Test Your Project!**

* Click the green flag
* Enter any mood sentence
* The sprite will change to the correct emoji

**🧠 Learning Outcome**

* Understand **supervised learning**
* See the connection between **training data** and **predictions**
* Learn how ML can be used in fun projects!

**📝 Printable Workbook (PDF)**

Would you like a **printable workbook** with:

* Project steps
* ML quiz questions
* Screenshots
* Space for student notes?

✅ **Reply** with “Yes, send the printable workbook”  
📎 I’ll generate and send the PDF right away.

**🎬 Optional: Demo Video Link**

You can watch a similar walkthrough here:  
🔗 [ML for Kids Scratch Demo (YouTube)](https://www.youtube.com/watch?v=ly36kn0ug4k)

Would you also like:

* 🖥️ A **PowerPoint presentation** for teaching?
* 📘 A **trainer handbook** with script and exercises?

Let me know — I’ll prepare all materials!