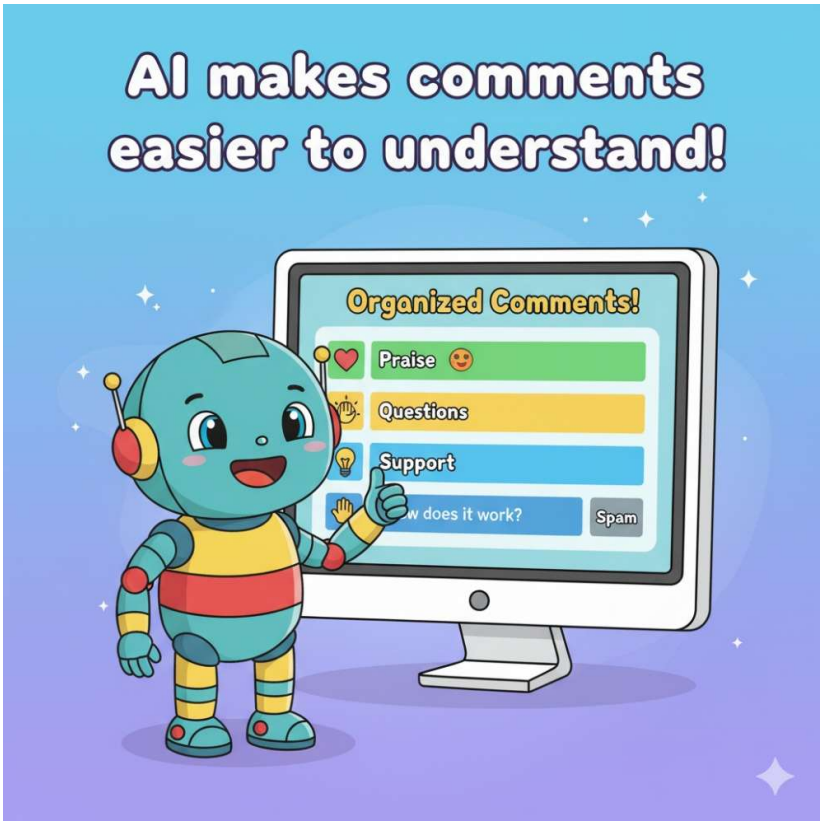
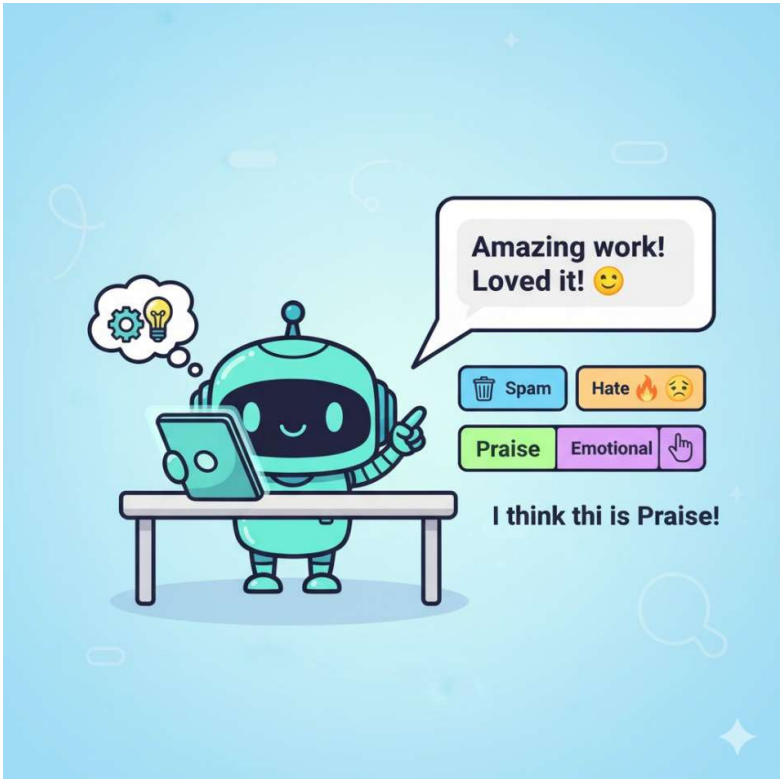
# AI makes comments easier to understand!



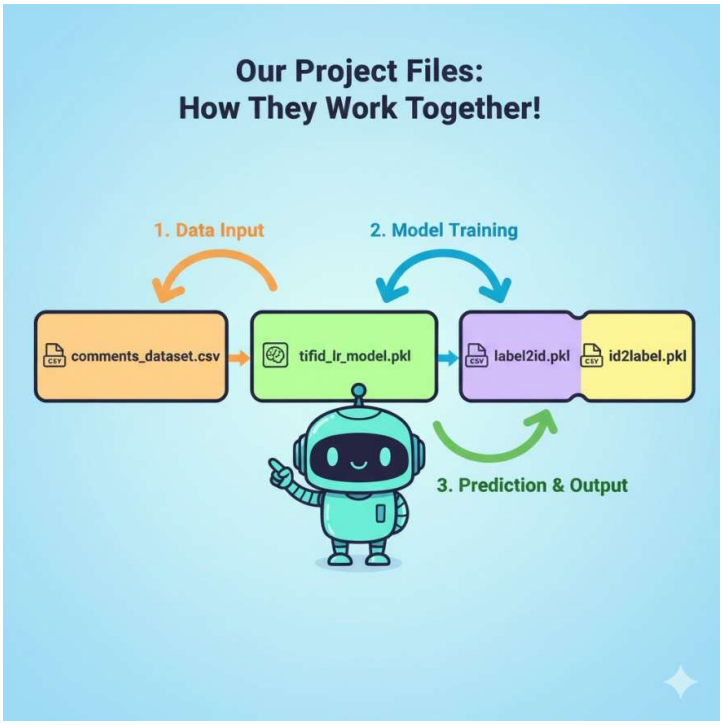

This picture shows that our special AI helper can sort all the different comments we get online. It makes a big messy list of comments look neat and easy to understand!

# Robot Reading and Classifying




Here, our robot is acting like a super-smart detective! It reads a comment (like "Amazing work! Loved it!"). Then, it thinks hard and picks the right category for it, like "Praise." It's like sorting your toys into different boxes!

# Our Project Files: How They Work Together!



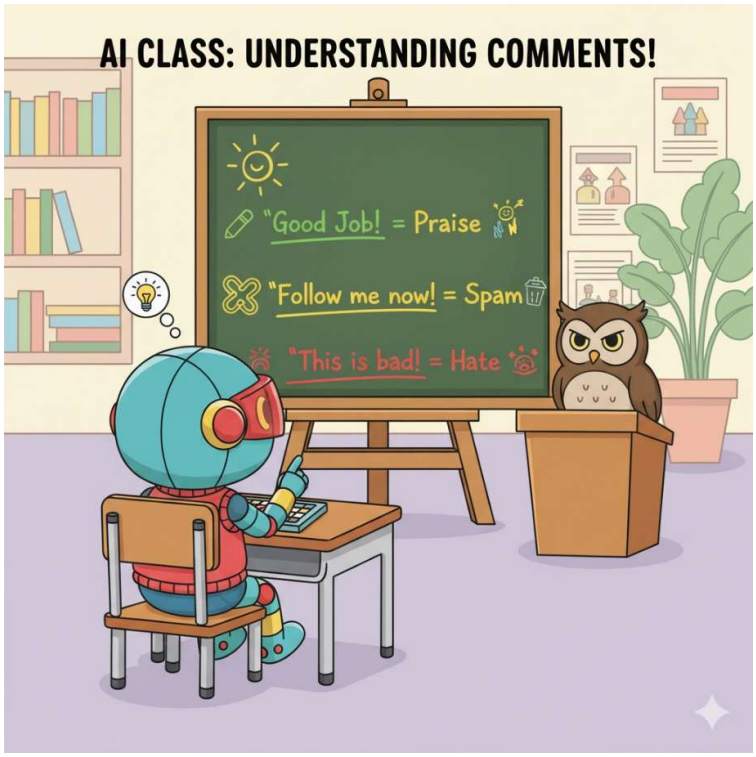

This shows the important computer files that help our robot work.

- First, we give it comments_dataset.csv (all the comments to learn from).
- Then, it uses that to build tfidf_lr_model.pkl (that's its brain, how it learns!).
- The label2id.pkl and id2label.pkl files are like its dictionary, helping it understand what "Praise" or "Spam" really means. These files work together like a team!

# How AI Learns from You!

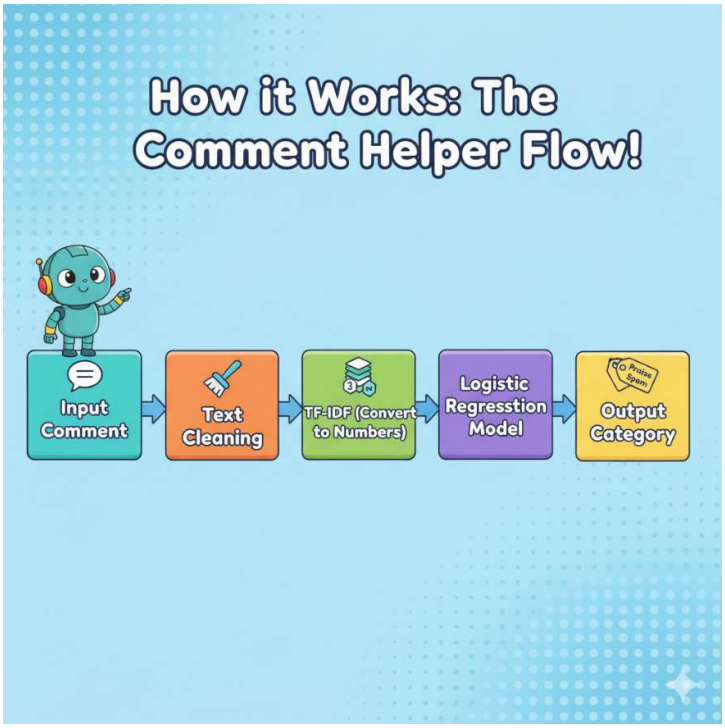

This shows how our robot gets smart! It reads tons of comments (that's the "Input" from the books). As it reads, it figures out patterns and what different kinds of comments mean (that's "Learning"). Finally, it builds "Knowledge" so it knows exactly what to do with new comments. It's like you reading many books to become an expert on a topic!

# AI Class: Understanding Comments!




This picture shows our robot learning in school! Just like you learn in class, the robot learns how to tell the difference between different types of comments. The owl teacher is showing examples like "Good Job" means "Praise," and "Follow me now" means "Spam." This is how the AI gets smart enough to sort comments!

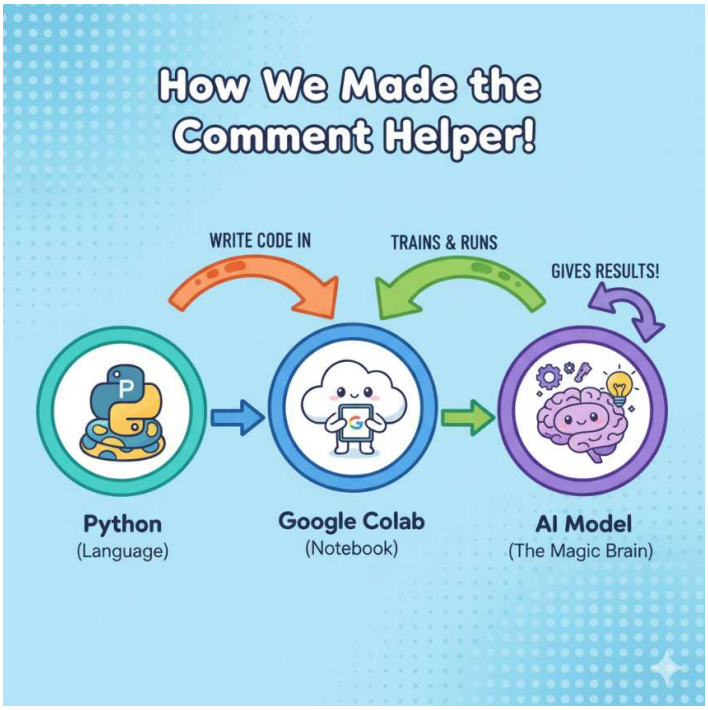
# How it Works: The Comment Helper Flow!




This shows how our AI sorts a comment:

1. **Input Comment:** It gets a comment (like a message).
2. **Text Cleaning:** It tidies up the words (removes junk).
3. **TF-IDF (Convert to Numbers):** It changes words into numbers (so the computer can read them).
4. **Logistic Regression Model:** The AI "brain" reads the numbers and decides what the comment means.
5. **Output Category:** It tells us if it's "Praise," "Spam," or another type!

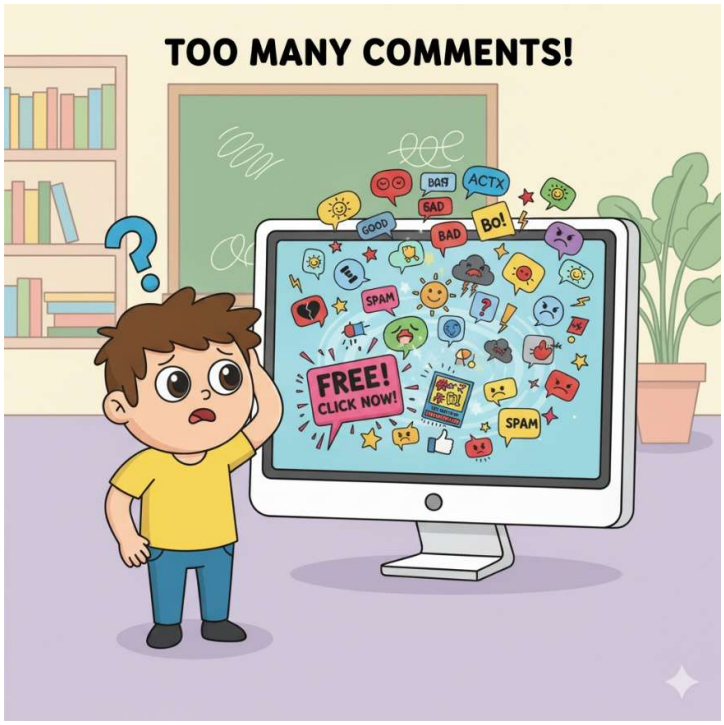
# How We Made the Comment Helper!




- Three colorful circles connected by arrows, showing a snake (Python), a cloud (Google Colab), and a brain (AI Model).
- **What it means:** This shows the three main tools we used to build our comment-sorting robot:
    1. **Python:** This is the special computer "language" we wrote our instructions in.
    2. **Google Colab:** This is like a special online notebook where we wrote and ran our Python code.
    3. **AI Model:** This is the "magic brain" that learns from comments and gives us the answers!

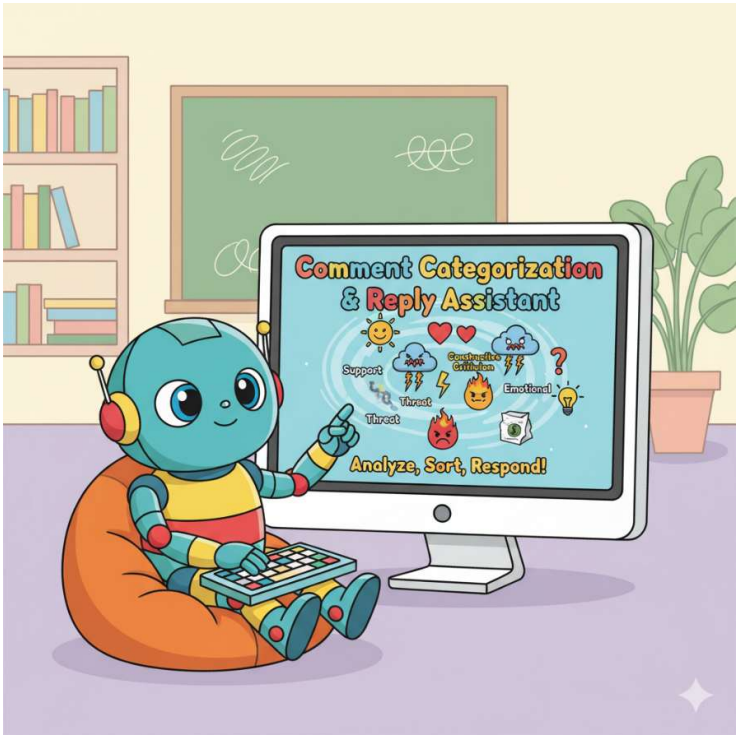
These three tools worked together to create our smart comment helper!

# TOO MANY COMMENTS!




Imagine getting hundreds of messages all at once! This picture shows how confusing and overwhelming it can be when there are "too many comments." It's hard to tell which ones are important, which are kind, or which are just junk. This is why we need our AI helper!

# Comment Categorization & Reply Assistant




This is what our awesome AI tool looks like when it's helping! It shows how it sorts all the comments into clear groups. Instead of a messy list, we can easily see if comments are for "Support," if they're "Emotional," or even if they're a "Threat." It helps us quickly *Analyze*, *Sort*, and *Respond* to everyone!


THANK YOU!