

Fabulous, Leslie 🌸 — welcome to Lesson 17: Building Your First AI Documentation Project 🖥️ ✨

Now that you've learned how to structure and style AI documentation, we're going to build your first full AI documentation project — just like a professional AI tech writer would inside a company like OpenAI, DeepMind, or Hugging Face.

We'll walk through this together — and by the end, you'll have:

- A real Model Card An API Reference
- A short User Guide All written clearly, ethically, and professionally

 lesson17-ai-doc-project.md

Lesson 17: Building Your First AI Documentation Project

Overview

This project helps you practise documenting a small, realistic AI system from start to finish.

You'll write three key pieces of documentation — just like those used by AI developers and product teams.

The system you'll document is called **SmartClassify**, a fictional text classification model that categorises customer support messages into tags like *Billing*, *Technical Issue*, or *General Query*.

Step 1: Model Card (Ethical + Technical Overview)

SmartClassify — Model Card

Model Overview:

SmartClassify is a fine-tuned Transformer model built on the BERT architecture.

It automatically classifies customer support messages into predefined categories, helping teams route tickets efficiently.

Intended Use:

- Customer support automation
- Internal triage of messages
- Language understanding tasks in English

Not intended for:

- Legal, financial, or medical advice
- Automated decision-making affecting individuals

Training Data:

SmartClassify was trained on 100,000 anonymised support messages from open-source datasets (Zendesk Corpus + synthetic examples).

Evaluation Metrics:

Metric	Score
Accuracy	92.4%
F1 Score	90.8%
Latency	150ms

Ethical Considerations:

- Avoid using for sensitive or personally identifying content.
- Bias testing ongoing (particularly across dialects and tone).

Limitations:

- May misclassify sarcastic or multi-topic messages.
- English-only model (future multilingual update planned).

Step 2: API Documentation (Developer Integration)

POST /api/v1/smartclassify

Description:

Classifies an input text message into one of three categories:

- `billing`
- `technical_issue`
- `general_query`

Request Example:

```
POST /api/v1/smartclassify
Content-Type: application/json

{
  "text": "My account was charged twice this month."
}
```

Response Example:

```
{
  "category": "billing",
  "confidence": 0.94
}
```

Response Fields:

Field	Type	Description
category	String	Predicted class label
confidence	Float	Confidence score (0–1)

Error Codes:

Code	Message	Meaning
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400 Invalid Input Text field missing
415 Unsupported Format Non-UTF8 encoding
500 Server Error Model unavailable
 Step 3: User Guide (For Non-Developers)
Getting Started with SmartClassify

Purpose:

SmartClassify helps support teams automatically route messages by understanding their content.

1 Install the Client

```
pip install smartclassify
```

2 Import the Library

```
from smartclassify import classify  
  
result = classify("My internet is not working.")  
print(result)
```

3 Example Output

Category: technical_issue
Confidence: 0.89

4 Troubleshooting

Issue Fix
“ModuleNotFoundError” Install using pip install smartclassify
“Low accuracy” Ensure text is in English and free from typos

5 Support

Email: support@smartclassify.ai

Docs: <https://smartclassify.ai/docs>

Version: v1.0.0

✓ Step 4: Deliverables Checklist

Before publishing your project:

Model Card written clearly and ethically

API documentation with examples and error codes

User Guide for non-technical audiences

Markdown files linked in your portfolio

Optional PDF exports **for** download

✨ Summary

This project demonstrates your ability to document an AI model **in** three dimensions:

Technical (API docs)

Human-centred (User guide)

Ethical & Transparent (Model card)

You can now include this project **in** your portfolio to showcase your AI documentation skill **set**.

“A great AI writer makes the invisible systems visible – and understandable to everyone.”

– Leslie Amadi, AI Technical Writer

Now you have your **first AI documentation project** written and structured perfectly **for** your portfolio 🗂️

Would you like me to walk you through **h**