```
\documentclass[12pt,a4paper]{article}
\usepackage[utf8]{inputenc}
\usepackage[english]{babel}
\usepackage[margin=2.5cm]{geometry}
\usepackage{inconsolata} % Pleasant monospaced font
\usepackage{hyperref}
\hypersetup{colorlinks=true, linkcolor=MidnightBlue, urlcolor=MidnightBlue}
\usepackage{fancyvrb} % for displaying code
\title{PROJECT ASSIMOV: A Manifesto for Educators in the Age of Transformers}
\author{Didac Valenciano Gener}
\date{May 2025}
\begin{document}
\section*{2025 is — and will be — the year of ChatGPT.}.
```

In Iberian and Mediterranean Europe within the EU, with a latent mecha subconscious still noticeable today, *Mazinger Z* left a deep cultural, emotional, and multi-domain mark that explains certain shared behaviors of *Generation X*. If you're between 45 and 60 years old, you've already thought "¡Puños fuera!", recalled how you survived *Blandiblú*, the *Famobil Clicks*, and watched violent cartoons without becoming a psychopath.

In the United States, *Hasbro* initiated the generational transition with the *Transformers* saga, which reached its cultural peak in 2007 when, right at the beginning of the footage, the *Decepticons* attacked a U.S. military base in the Qatari desert. Meanwhile, *Megan Fox* and *Shia LaBeouf* left us breathless. It was at that moment that a new image stuck in the subconscious of another generation: a small *Decepticon* — a *Transformer*, but one of the bad guys — hidden among the protagonists' belongings, absorbing metal from its surroundings to modify itself, stretching its forms, elongating and adapting until it reached its objective.

Ten years later, as the result of a long journey of research by multiple academic and private entities, in parallel with the world of entertainment, *Google* publicly introduced in 2017 an algorithmic technology that replicates itself, stretches and expands its own structure, modifying and elongating until, in a purely probabilistic way, it achieves its goal. What a surprise — and what a coincidence — that this technology, previously unknown, was named: *transformers*.

"Attention is All You Need", published by Google in 2017, caused quite a stir — especially on Twitter (or Grok, or whatever it's called this week). But it wasn't until OpenAl took the baton that they placed, quite literally, a small transformer in front of us. One that, every time we speak to it, tokenizes our language, and like that Decepticon in the Qatari desert, stretches, adapts and reorganizes its form to generate, in a purely probabilistic way, a response optimized for the situation at hand.

And the beauty of it, my friends, is that it simulates so well, that if we understand artificial intelligence as a functional simulation of intelligence... well, there might be other implementations, but this one — definitely — is one.

What follows is another implementation. One that, like the algorithms from *OpenAI*, stretches, adapts and reorganizes its own structure to generate, in a purely probabilistic way, an optimal response to the situation at hand: efficiently creating didactic content, an article, a book. All so that we, *teachers*, may have our own weapons for the battle that awaits us.

github.com/nassaba-ai/project-assimov - Al-enhanced Content Ceneration Pipeline

```
1 # Phase 0: Interpret prompt and assign roles with
     grammarnaut + llm_router
# Phase 1: Generate structural skeleton with yaml_generator
     using Claude or o3 or ...
5 # Phase 2: Expand each section with role-assigned LLMs (GPT
     -4o, MythoMax, Lit-6B...) using cached YAMLs
7 # Phase 3: Review narrative coherence, argument and tone
     with o3 or Claude using section context
9 # Phase 4: Compile formatted output into .tex with writer or
      translator
_{11} # Phase 5 (optional): Final stylistic polish by purist LLM
     or human reviewer
12
14 # AI-enhanced Content Generation Pipeline (Assimov)
16 import openai
17 from pathlib import Path
18 import time
20 def phase_0_prompt_intake():
      """Receive user prompt and determine functional roles +
         IIMs."""
      prompt = user_input()
      roles = assign_roles(prompt) # via gramaneute.py ->
23
         llm_router.py
      llms = select_models(roles, config="config.yaml")
      return plan(roles, llms)
25
27 def phase_1_generate_structure(plan):
      """Create YAML skeleton per section with titles, themes,
28
          targets."""
      yamls = []
      for section in plan.sections:
      yamls.append(generate_yaml(section)) # via
31
         yaml_generator.py or real LLM
      return yamls
32
34 def phase_2_expand_sections(yamls):
      """Expand each section via assigned LLM, using cached
         context."""
      content = []
36
      for yaml in yamls:
```

```
11m = yaml.assigned_model
38
          section_text = expand_from_yaml(yaml, llm=llm,
39
             use_cache=True)
          content.append(section_text)
      return content
41
43 def
      phase_3_refine_coherence(content):
      """Polish narrative flow, argument structure, and tonal
         coherence."""
      polished = []
45
      for section in content:
          coherent = enforce_coherence(section) # coherence
47
             supervisor
          refined = polish_argument(coherent)
          toned = adjust_tone(refined)
          polished.append(toned)
      return polished
53 def phase_4_compile_tex(polished):
      """Format polished content into a .tex document with
         structure."""
      doc = initialize_tex()
      for section in polished:
          doc.append(format_section(section)) # via writer.py
57
              or translator.py
      return doc
60 def phase_5_final_review(tex_document):
      """Optional: stylistic and poetic pass by a purist LLM
         or human."""
      reviewed = manual_review(tex_document)
62
      return reviewed
65 # Main pipeline execution
67 if __name__ == "__main__":
      plan = phase_0_prompt_intake()
68
      yamls = phase_1_generate_structure(plan)
      raw_content = phase_2_expand_sections(yamls)
      refined = phase_3_refine_coherence(raw_content)
      tex = phase_4_compile_tex(refined)
72
      final_output = phase_5_final_review(tex)
73
      save(final_output, "output/document.tex")
```

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