

REFACTOR

GENIE



RefactorGenie  

“Welcome, Developer! Refactor Genie is Ready to Work Its Magic on Your Code!”

Hi, this is your RefactorGenie, let's refactor your code!

Upload your Python, TypeScript, or JavaScript file



Drag and drop file here

Limit 200MB per file • PY, TS, JS

Upload your code file or enter additional code and click REFACTOR to get refactored solutions.

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Overview

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Team Introduction



Inaam



Malaika



Kanishk

Problem Statement

Create an application that utilizes Codestral's powerful code generation across more than 80 programming languages such as Python, Java, and SQL.

Project Goal:

- Address a practical, real-world problem with creative coding solutions.
- Enhance developer productivity and code quality, with measurable improvements.

The logo for Codestral Technology is displayed in a circular frame. The text "Codestral Technology" is rendered in a bold, 3D, orange-yellow font with a slight shadow effect. The background within the circle is dark brown, and the entire circular frame is set against a blue background that features a large, abstract, curved shape in the top-left corner.

Our Concept

RefactorGenie is your AI-powered assistant designed to make code refactoring easier, faster, and more efficient.

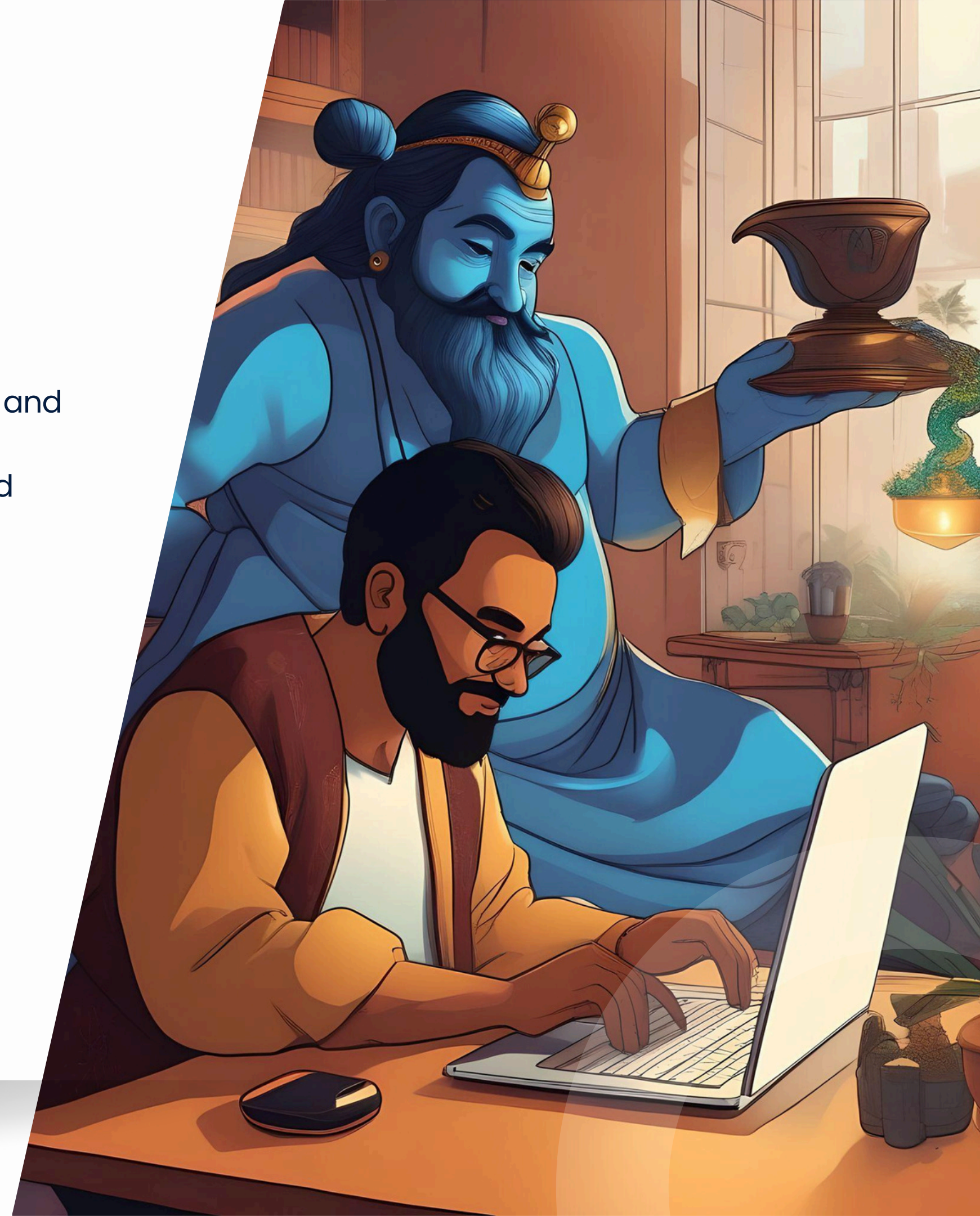
Leveraging advanced AI models, RefactorGenie analyzes your code and provides multiple refactored solutions tailored to your needs. Say goodbye to manual code reviews and hello to intelligent, automated refactoring.

What

Code refactoring is like a spring cleaning for your software. Imagine your app as a city: over time, roads get potholes, signs age, and traffic worsens. Refactoring fixes these issues without changing the city's core.

Why

- Slower Development Cycles
- Decreased Adaptability
- Missed Deadlines and Budget Overflows
- Vendor Lock-in

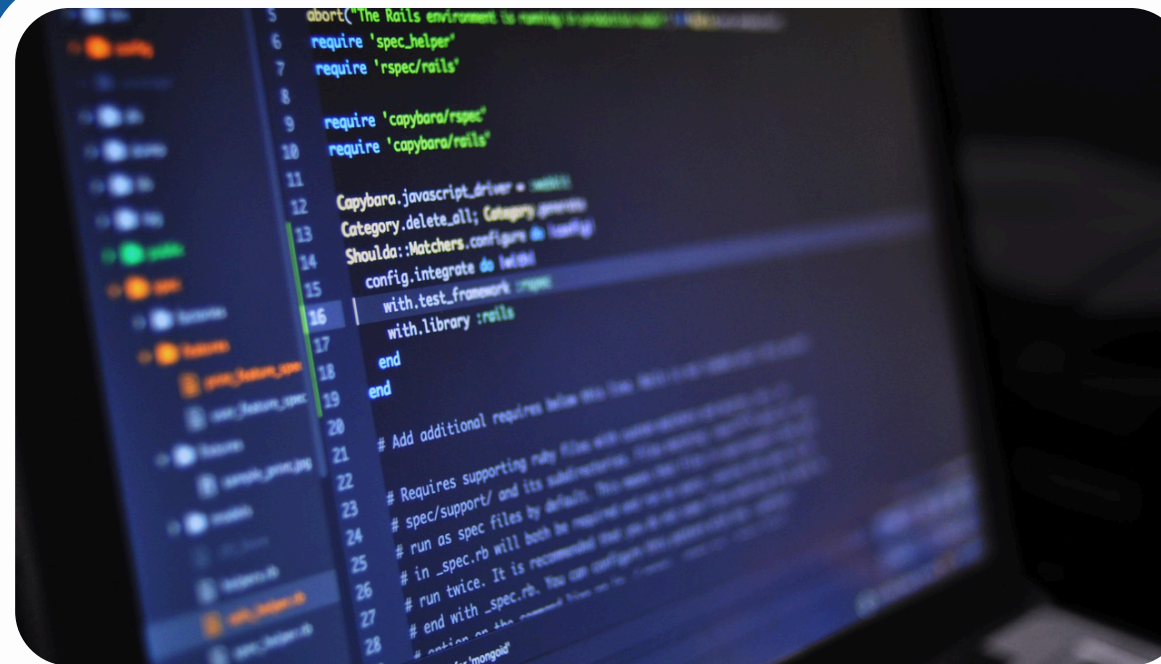


Business Outlook



Increased Productivity

Automating code refactoring significantly speeds up the process compared to manual refactoring, allowing developers to focus on more complex and high-value tasks and by utilizing Codestral we can automate the tedious task of refactoring using GenerativeAI. This can help the developers in long run with increased productivity and time to focus on other useful activities.



Cost Saving

AI-driven refactoring can help identify and correct code issues early and can reducing the cost associated with debugging and fixing bugs later stages of development life cycle.

By using RefactorGenie you can extract useful insight from your code and with a refactored code the speed of development will increase significantly.



Scalability

Dealing with large corpus of data the refactoring task for developers. Using Codestral endpoints in RefactorGenie we promise to deal with this problem with an increased pace. As Codestral is a developing technology the refactoring will just get better with time.

Statistics

According to Roundhill investments, GAI enterprise software are expected to reach at TAM of \$120.8 billion in a decade with 50% of monthly software expenditure per employee shifts to GAI.

The search advertising market generated \$231 billion of revenue in 2021 and is forecast to grow at a 9.9% annual growth rate through 2027 to over \$400 billion, according to Magna Global

2033 Generative AI Enterprise Software Revenue Scenario Analysis (\$ Billions)

Source: World Bank, International Monetary Fund, IDC, Bloomberg, Roundhill Investments, April 28, 2023.

		GAI 2033 Penetration % Monthly Software Spend Per Employee								
		40.0%	42.5%	45.0%	47.5%	50.0%	52.5%	55.0%	57.5%	60.0%
GAI 2033 Software Subscribers % Labor Force	5%	\$48.3	\$51.3	\$54.3	\$57.4	\$60.4	\$63.4	\$66.4	\$69.4	\$72.5
	6%	\$58.0	\$61.6	\$65.2	\$68.8	\$72.5	\$76.1	\$79.7	\$83.3	\$86.9
	7%	\$67.6	\$71.8	\$76.1	\$80.3	\$84.5	\$88.8	\$93.0	\$97.2	\$101.4
	8%	\$77.3	\$82.1	\$86.9	\$91.8	\$96.6	\$101.4	\$106.3	\$111.1	\$115.9
	9%	\$86.9	\$92.4	\$97.8	\$103.2	\$108.7	\$114.1	\$119.5	\$125.0	\$130.4
	10%	\$96.6	\$102.6	\$108.7	\$114.7	\$120.8	\$126.8	\$132.8	\$138.9	\$144.9
	11%	\$106.3	\$112.9	\$119.5	\$126.2	\$132.8	\$139.5	\$146.1	\$152.8	\$159.4
	12%	\$115.9	\$123.2	\$130.4	\$137.7	\$144.9	\$152.1	\$159.4	\$166.6	\$173.9
	13%	\$125.6	\$133.4	\$141.3	\$149.1	\$157.0	\$164.8	\$172.7	\$180.5	\$188.4
	14%	\$135.2	\$143.7	\$152.1	\$160.6	\$169.1	\$177.5	\$186.0	\$194.4	\$202.9
	15%	\$144.9	\$154.0	\$163.0	\$172.1	\$181.1	\$190.2	\$199.2	\$208.3	\$217.4