# Cursor IDE Teaching an Al to Teach Itself

A deep dive into Cursor's self-learning capabilities through

.cursor/rules

## What We'll Cover

- 1. What is Cursor?
- 2. Understanding Cursor Rules
- 3. The Power of Self-Learning
- 4. Live Demo
- 5. Best Practices & Tips

#### What is Cursor?

An Al-first IDE that revolutionizes how we write code

- Intelligent Code Completion
- Context-Aware Understanding
- Natural Language Interaction
- E Documentation Generation
- Self-Learning Capabilities

# Why Cursor?

- Faster Development: Al assistance speeds up coding
- Smarter Suggestions: Understands project context
- Learning System: Improves over time
- Customizable: Adapts to your codebase
- Open Source: Community-driven improvements

# **Understanding Cursor Rules**

The .cursor/rules system: Your Al's knowledge base

## What are Cursor Rules?

- Project-specific guidelines
- Al behavior modifiers
- Codebase documentation
- Learning framework

# Rule Types

#### 1. Auto-attached

Triggered by file patterns

#### 2. Agent-requested

Used when relevant

#### 3. Always

Applied to every interaction

#### 4. Manual

Explicitly referenced

### Rule Structure

```
description: Rule purpose
globs: ["*.ts", "*.tsx"]
type: auto_attached
# Rule Title
## Context
What the rule addresses
## Guidelines
Specific instructions
## Examples
Code samples
```

# The Power of Self-Learning

How Cursor evolves with your project

- 1. Q Identify patterns & errors
- 2. Document solutions
- 3. Create new rules
- 4. Apply & refine

# **Error Analysis Framework**

- 1. Identify root cause
- 2. Document incorrect approach
- 3. Record correct solution
- 4. Create/update rules

# **Rule Categories**

- Type Errors
- Integration Issues
- Performance Patterns
- Dependency Management
- Project Conventions

# **Benefits of Self-Learning**

- Continuous improvement
- Faster development
- K Reduced errors
- E Growing knowledge base

## **Live Demo**

Watch Cursor learn and create new rules

- 1. Encounter a common error
- 2. Analyze the problem
- 3. Create a new rule
- 4. Test the improvement

# **Example Rule Creation**

Before/After code samples

```
description: Handle TypeScript enum type safety
globs: ["*.ts", "*.tsx"]
type: auto_attached
# TypeScript Enum Best Practices
## Problem
Inconsistent enum usage leading to type errors
## Solution
Standardized enum pattern with type safety
## Examples
```

# **Getting Started**

- 1. Install Cursor IDE
- 2. Create .cursor/rules directory
- 3. Add your first rule
- 4. Watch it learn and grow

### Resources

- Cursor IDE Website
- **Documentation**
- GitHub Repository
- Community Discord

## Thank You!

Start small with rules, and let them grow naturally as you encounter new patterns and challenges

cursor.sh