



# AUTOMATING THE MUNDANE

with n8n and Generative AI



# SPEAKER INTRO



## **Mike Onslow**

Clarity Voice | Artificial Antics

email: mike@antics.tv

x: mike\_onslow

linkedin: mikeonslow

Automating the Mundane with n8n and Generative AI



# AGENDA

- Working with n8n, Generative AI and LLMs
- Cases for Automation
- Case Studys: Email Management, Lead Research, Sales Coaching
- Q&A

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# PROJECT REPO



@artificialantics/  
mitechcon-automation

Automating the Mundane with n8n and Generative AI



# WORKING WITH N8N, GENERATIVE AI AND LLMS

Automating the Mundane with n8n and Generative AI



# WHAT IS N8N?

Workflow automation tool for integrating apps.



n8n

<https://n8n.io>

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# WAYS TO USE n8n



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# WORKFLOWS

The screenshot shows the n8n interface with a dark theme. On the left is a sidebar with 'n8n' at the top, followed by 'Overview', 'Projects', 'Personal', and 'MITECHCON 2025' which is highlighted. At the top right is a red button '+ Create in project'. The main area is titled 'MITECHCON 2025' and contains five workflow cards:

- AI-Powered Information Monitoring with OpenAI, Google Sheets, Jina AI and Slack**  
Last updated just now | Created 22 March | MITECHCON | Inactive
- AI Powered Email Manager with Gmail, Open AI, Webhooks, HTML and Trello**  
Last updated just now | Created 14 March | MITECHCON | Inactive
- AI Powered SEO Profile Builder - Webhooks, Gemini 2.0 Flash, Python**  
Last updated just now | Created 12 March | MITECHCON | Inactive
- AI Sales Meeting Coaching Report - Open AI, Hubspot, Trello and Slack**  
Last updated just now | Created 21 March | MITECHCON | Inactive
- AI Web Researcher for Sales - OpenAI Agent, SerpAPI and Google Sheets**  
Last updated 1 minute ago | Created 22 March | MITECHCON | Inactive

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# WORKFLOWS

## Types of n8n Nodes

### Triggers

Nodes that initiate processes.

### Processing

Steps for transforming and managing data.

### Accessing Tools

Methods to connect with external services.

### Outputs

Results generated from data flows.

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# CREDENTIALS

A screenshot of the n8n interface, specifically the "Credentials" tab for the project "MITECHCON 2025". The interface has a dark theme with light-colored cards for each credential. At the top, there are tabs for "Workflows", "Credentials" (which is underlined in red), "Executions", and "Project settings". Below these are search and filter options. A red button labeled "+ Create in project" is in the top right.

Credential Type	Provider	Details	Scope	Actions
Google Sheets account	Google Sheets OAuth2 API	Last updated 4 hours ago   Created 28 December, 2024	Personal + 1	⋮
HubSpot account	HubSpot OAuth2 API	Last updated 23 hours ago   Created 21 March	MITECHCON 2025	⋮
Mike	Basic Auth	Last updated 2 days ago   Created 19 February	Personal + 1	⋮
Gmail account (mike@antics.tv)	Gmail OAuth2 API	Last updated 1 week ago   Created 12 March	MITECHCON 2025	⋮
OpenAI	Header Auth	Last updated 1 week ago   Created 14 March	MITECHCON 2025	⋮
OpenAi Account CTS	OpenAI	Last updated 1 week ago   Created 19 February	Personal + 1	⋮

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# EXECUTIONS

MITECHCON 2025

+ Create in project

Workflows Credentials Executions Project settings

No active executions Auto refresh Filters

Name	Started At	Status	Execution ID	⋮
AI Web Researcher for Sales - OpenAI Agent, SerpAPI and Google Sheets	22 Mar at 18:45:56	Succeeded in 1.034s	#1095	⋮
AI Web Researcher for Sales - OpenAI Agent, SerpAPI and Google Sheets	22 Mar at 18:45:56	Succeeded in 0.943s	#1094	⋮
AI Web Researcher for Sales - OpenAI Agent, SerpAPI and Google Sheets	22 Mar at 18:45:56	Error in 0.871s	#1093	⋮
AI Web Researcher for Sales - OpenAI Agent, SerpAPI and Google Sheets	22 Mar at 18:45:55	Succeeded in 0.69s	#1092	⋮
AI Web Researcher for Sales - OpenAI Agent, SerpAPI and Google Sheets	22 Mar at 18:45:55	Succeeded in 0.901s	#1091	⋮
AI Web Researcher for Sales - OpenAI Agent, SerpAPI and Google Sheets	22 Mar at 18:45:55	Succeeded in 0.745s	#1090	⋮
AI Web Researcher for Sales - OpenAI Agent, SerpAPI and Google Sheets	22 Mar at 18:45:55	Succeeded in 0.699s	#1089	⋮
AI Web Researcher for Sales - OpenAI Agent, SerpAPI and Google Sheets	22 Mar at 18:45:55	Succeeded in 1.29s	#1088	⋮

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# EXECUTIONS

The screenshot shows a workflow management interface with a list of executions on the left and a detailed view of a specific execution on the right.

**Executions:**

- 22 Mar at 18:45:56 Succeeded in 1.034s
- 22 Mar at 18:45:56 Error in 0.871s | ID#1093
- 22 Mar at 18:45:56 Succeeded in 0.943s
- 22 Mar at 18:45:56 Error in 0.871s (highlighted with a yellow box)
  - Retry with currently saved workflow (from node with error)
  - Succ...  
Retry with original workflow (from node with error)
- 22 Mar at 18:45:55 Succeeded in 0.901s
- 22 Mar at 18:45:55 Succeeded in 0.745s
- 22 Mar at 18:45:55 Succeeded in 0.699s
- 22 Mar at 18:45:55 Succeeded in 1.29s

**Execution Details (ID#1093):**

22 Mar at 18:45:56  
Error in 0.871s

**Workflow Diagram:**

```
graph LR; A[Execute Workflow Trigger] --> B[Visit Website]; B --> C[HTML extractHtmlContent]
```

The workflow consists of three steps: 1. Execute Workflow Trigger (green success icon), 2. Visit Website (red error icon), 3. HTML extractHtmlContent (green success icon). The Visit Website step is highlighted with a red border and a yellow exclamation mark, indicating an error.

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# EXECUTIONS

AI Powered SEO Profile Builder - Webhooks, Gem...thon MITECHCON Inactive

Executions Auto refresh Filters

19 Mar at 23:24:31 Error in 11.573s | ID#1016

Debug in editor C trash

On form submission → HTTP Request → Code → SEO Profile (LLM Chain)

SEO Profile (LLM Chain) → Model → Google Gemini Chat Model

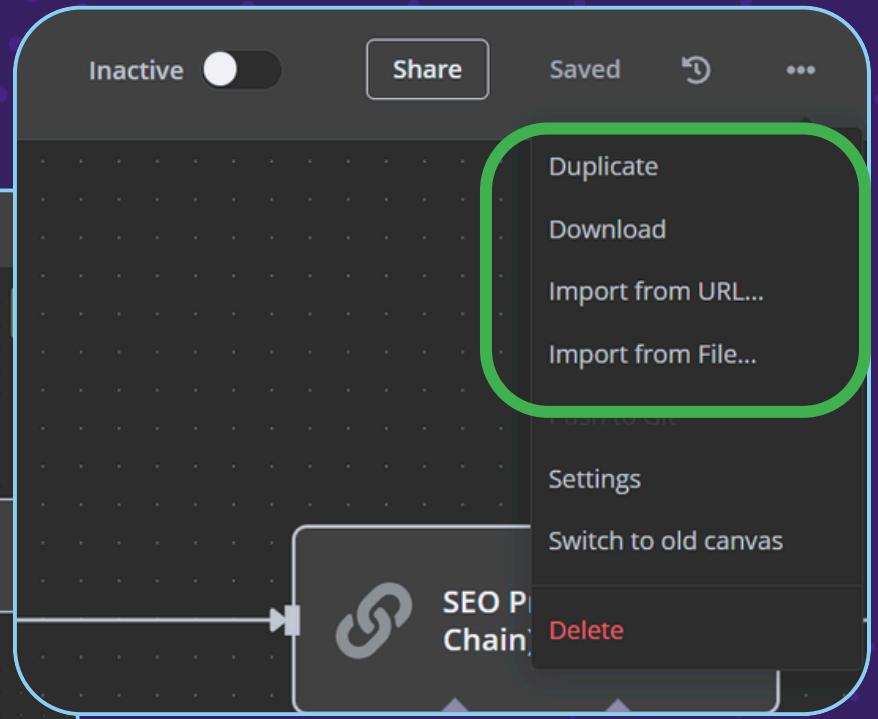
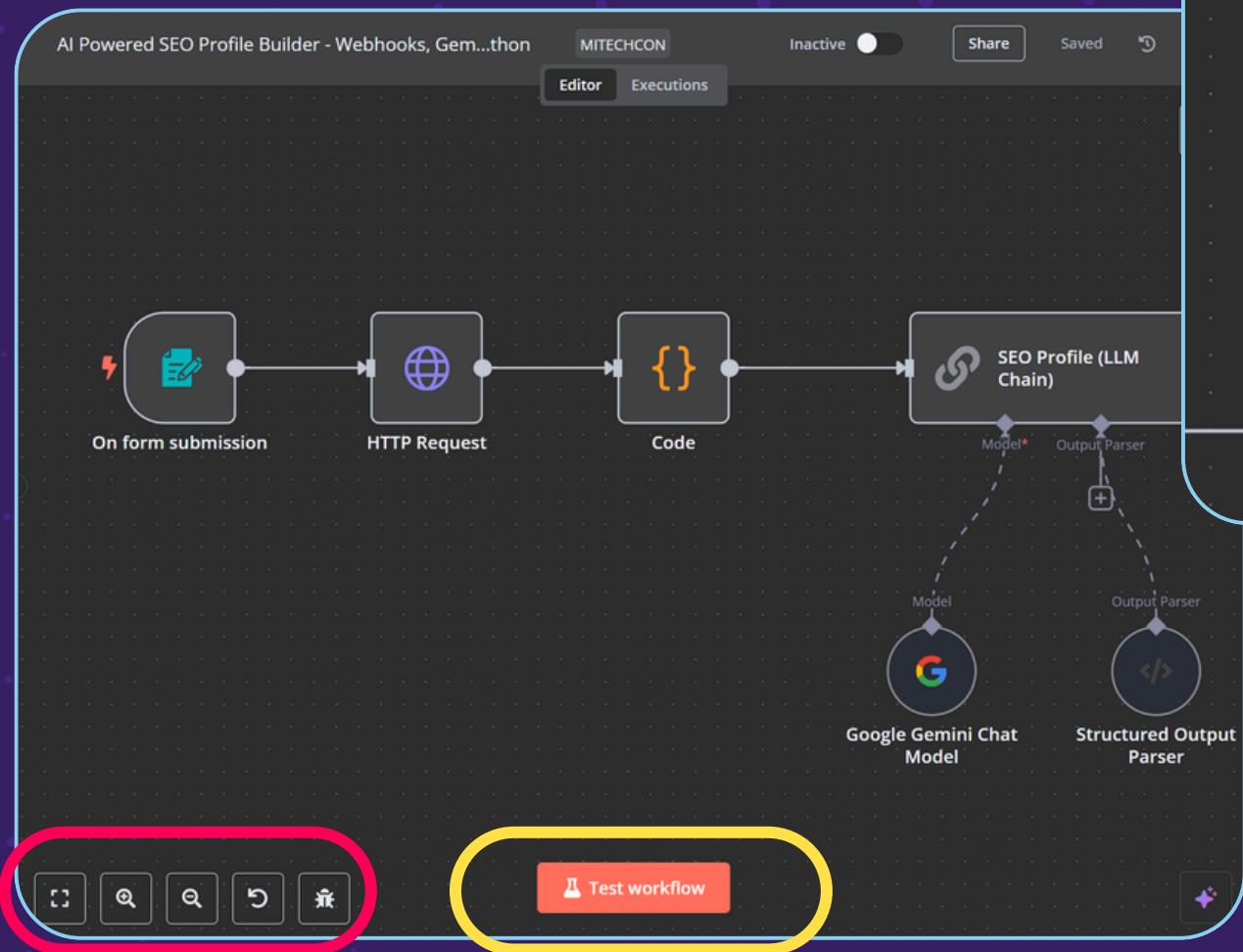
SEO Profile (LLM Chain) → Output Parser → Structured Output Parser

```
graph LR; A[On form submission] -- "1 item" --> B[HTTP Request]; B -- "1 item" --> C[Code]; C -- "1 item" --> D[SEO Profile LLM Chain]; D -- "Model" --> E[Google Gemini Chat Model]; D -- "Output Parser" --> F[Structured Output Parser]
```

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# EDITOR



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# TEMPLATES

A screenshot of the n8n website's 'Workflow Automation Templates' page. At the top, there's a navigation bar with links for Product, Use cases, Docs, Community, Enterprise, Pricing, Sign in, and Get started. Below the navigation is a heading '1533 Workflow Automation Templates' with a small sunburst icon. A sub-header says 'Explore 1000+ workflow templates submitted by our global creator community'. There's a search bar with placeholder text 'Search apps, roles, usecases...' and a magnifying glass icon. Below the search bar are two rows of category filters: AI, SecOps, Sales, IT Ops, Marketing, Engineering, DevOps, Building Blocks, Design, Finance, HR, Other, Product, and Support. A section titled 'Newcomer essentials: learn by doing' features a thumbnail for a template titled 'Creating an API endpoint'. The thumbnail shows a workflow diagram with nodes: 'Webhook', 'Create URL string', and 'Respond to Webhook'.

<https://n8n.io/workflows>



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# GETTING STARTED VIDEO



[https://youtube.com/watch?  
v=lvVQSxYRgLO](https://youtube.com/watch?v=lvVQSxYRgLO)

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# CASES FOR AUTOMATION

- Start with a PROBLEM
- Get the system/process/people right manually before automating it
- Repetitive work that follows patterns is ripe for automation

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# CASES FOR AUTOMATION

- Reports
- Entering data (CRM, Business Systems)
- Research
- Email Management

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# NON-DETERMINISM IN LLMS

Large Language Models generate different outputs from identical inputs due to probabilistic sampling methods, affecting consistency in text and code generation



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# CONTEXT WINDOW

LLM context windows define the maximum text length a model can process at once, impacting memory, coherence, and response accuracy by restricting how much prior context it retains.

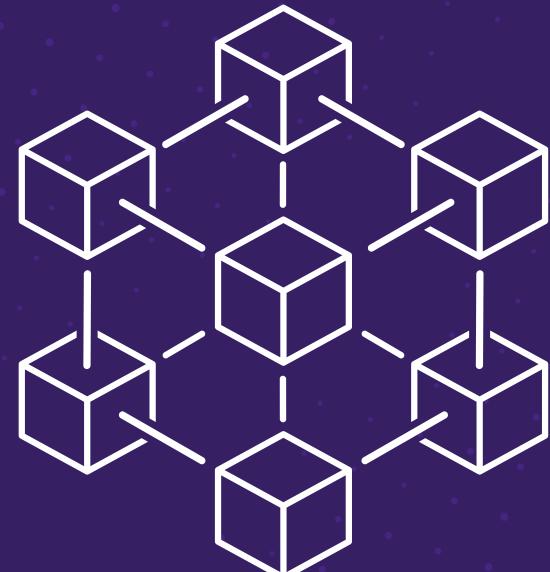


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# VECTOR DATA / EMBEDDINGS

Vectorizing a file converts its text into numerical embeddings using AI models, enabling efficient searching, comparison, and retrieval in machine learning, NLP, and AI-powered applications. can be helpful especially if you want to chat with large sets of data (for instance a full length novel)

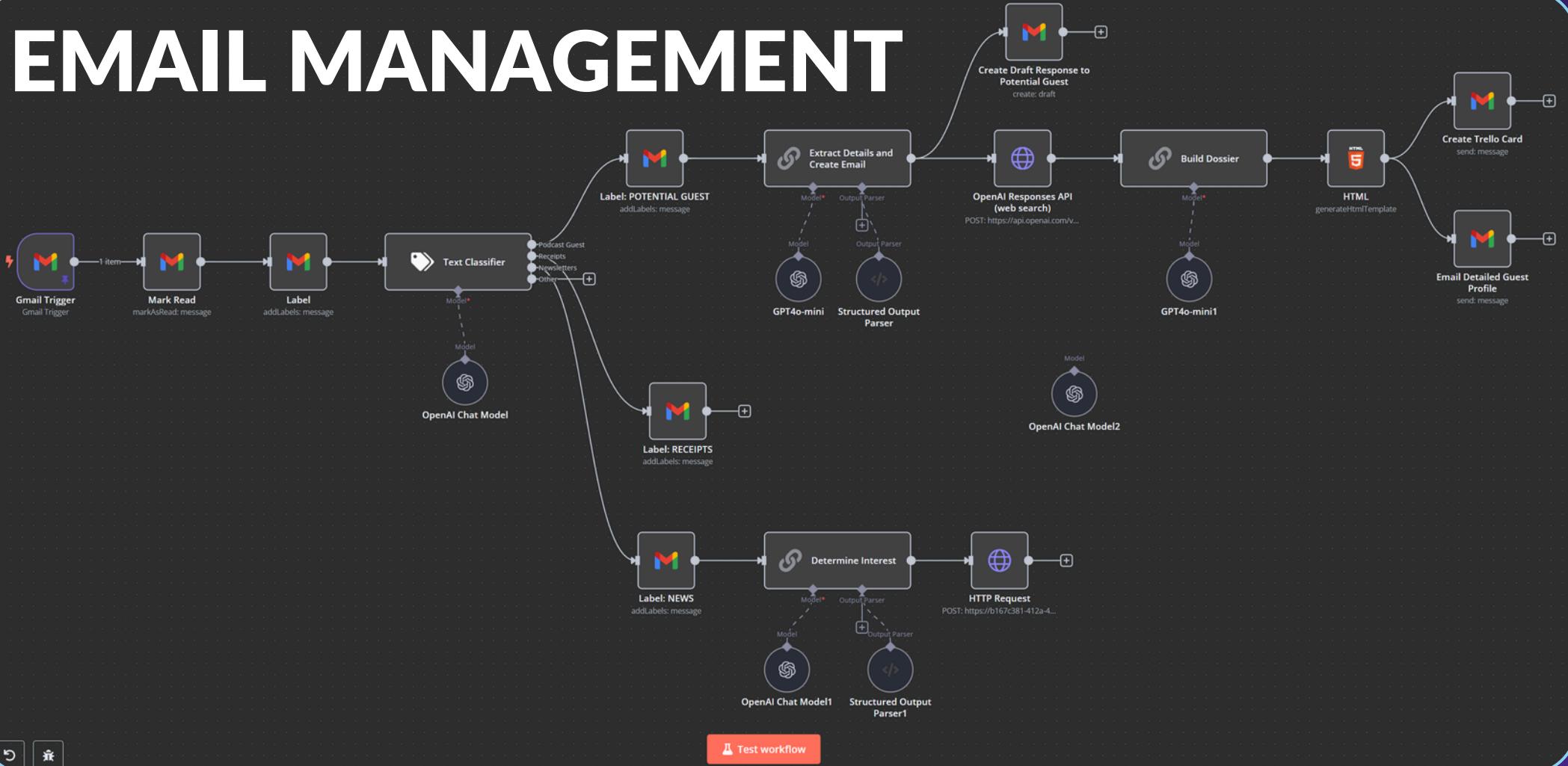


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# CASE STUDY

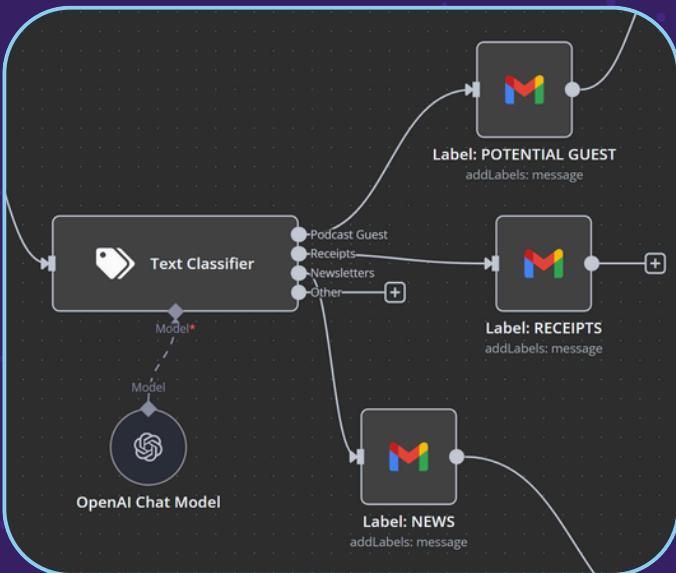
## EMAIL MANAGEMENT



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# CASE STUDY | EMAIL MANAGEMENT CATEGORIZATION & ROUTING



A screenshot of an email inbox illustrating the results of the categorization. The inbox lists several messages, each with a color-coded label indicating its category:

- me - Potential Guest Dossier - Summary From: mdonslow@gmail.com (Mike Onslow) Subject: [REDACTED] 9:28 AM
- Mike Onslow - PRE-SORTED/RECEIPTS Fwd: Midjourney receipts (MIKE) - ----- Forwarded message 9:27 AM
- Mike Onslow - PRE-SORTED/POTENTIAL GUEST Dr. Emily Carter - Hi Mike and Rico, I recently listened to ... 9:19 AM
- fellowshipdemo - PRE-SORTED/NEWSLETTERS THE WEEKLY AI JAM: Editon 1 - THE WEEKLY AI JAM H... 8:50 AM
- fellowshipdemo - PRE-SORTED/POTENTIAL GUEST Potential Podcast Guest Suggestion: Dr. Emily Carter - Hi... 4:47 AM
- me, Draft 2 - PRE-SORTED/POTENTIAL GUEST Potential Guest Dossier - Dear John Davis, Thank you fo... 4:34 AM
- Mike, Draft 2 - PRE-SORTED/POTENTIAL GUEST Potential Podcast Guest Suggestion: Dr. Emily Carter - D... 4:32 AM
- Mike Onslow - PRE-SORTED/NEWSLETTERS Fwd: DeepSeek-R1 Uncensored, QwQ-32B Puts Reasonin... 4:25 AM
- Mike Onslow - PRE-SORTED/NEWSLETTERS Fwd: 🤖 OpenAI's new AI agent toolkit - ----- Forwar... 4:25 AM
- Mike Onslow - PRE-SORTED/NEWSLETTERS Fwd: DIGITAL STORM weekly: The AI Revolution Unfolds: ... 4:25 AM
- Mike Onslow - PRE-SORTED/NEWSLETTERS TaskDrive Weekly: Weekly AI Round-Up: The Art of Promp... 4:23 AM
- Mike Onslow - PRE-SORTED/NEWSLETTERS Fwd: AI Bytes Newsletter Issue #60 - ----- Forwarde... 4:18 AM
- Mike Onslow - PRE-SORTED/NEWSLETTERS Fwd: How Karpathy Uses LLMs, Why OpenAI Should Wor... 2:34 AM
- Mike Onslow - PRE-SORTED/RECEIPTS Fwd: HeyGen Receipts - ----- Forwarded message ----- 2:09 AM

At the bottom of the inbox, there are three small buttons: 'Your receipt fro...', 'Invoice-51620D...', and 'Receipt-2593-7...'.

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# CASE STUDY | EMAIL MANAGEMENT

## CREATE AND EMAIL DOSSIER

Potential Guest Dossier Inbox x

◆ Summarize this email

 mike@antics.tv 9:28 AM (15 minutes ago)

to me ▾

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### Summary

**From:** [mdonslow@gmail.com](mailto:mdonslow@gmail.com) (Mike Onslow)

**Subject:** Dr. Emily Carter

*Hi Mike and Rico,*

*I recently listened to your episode "The Future of AI in Healthcare"*

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# CASE STUDY | EMAIL MANAGEMENT

## CREATE AND EMAIL DOSSIER

### Dossier

#### Michael "Mike" Onslow: A Comprehensive Professional Dossier

Michael "Mike" Onslow is a technology professional specializing in software engineering and cloud-based solutions, currently serving as the Director of Technology and Development at Clarity Voice. With a career spanning over two decades, Onslow has established himself as a leader in web application development, systems architecture, and community-building within the tech sector. This report synthesizes information from public records, professional platforms, and organizational profiles to provide a detailed overview of his professional trajectory, contributions, and influence.

#### Personal Information

**Full Name:** Michael "Mike" Onslow

**Age:** Mid-to-late 40s (estimated based on career timeline)

**Location:** Southfield, Michigan, United States

#### Known Affiliations:

- Clarity Voice (current employer)
- Detroit-area tech communities (meetup organizer and conference host)

### Current Role

**Director of Technology and Development, Clarity Voice (2022–Present)**

Onslow oversees technological strategy and software development for Clarity Voice, a cloud-based telecommunications provider serving franchises and businesses. His responsibilities include managing cross-functional teams, optimizing SaaS platforms, and integrating advanced telephony solutions. Under his leadership, Clarity Voice has expanded its proprietary FranchisePhones® system, tailored for the franchise industry.

### Past Positions

- Principal Software Engineer, Clarity Voice (2017–2022)**
  - Spearheaded the adoption of Elm and Elixir programming languages to enhance application performance and developer productivity.
  - Led initiatives to modernize legacy systems, reducing operational latency by 40%.
- Senior Full Stack Developer, Intrepid Control Systems (2021–2022)**
  - Developed embedded software solutions for automotive diagnostic tools, focusing on real-time data processing.
- Computer Systems Analyst, SKF Group (2013)**
  - Optimized enterprise resource planning (ERP) systems for manufacturing workflows, improving supply chain transparency.
- Lead IT Specialist, Concise Computer Consulting (2000s–2010s)**
  - Designed custom web applications for clients in healthcare and logistics, earning recognition for scalable architecture designs.
- Network Support Analyst, Hubbell, Roth & Clark (Early Career)**

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# CASE STUDY | EMAIL MANAGEMENT

## CREATE TRELLO CARD

○ Invite Mike Onslow as podcast guest

in list LANDING ZONE

Members Notifications AA + ⚡ Watching

Description

Consider inviting Mike Onslow as a guest on the Artificial Antics podcast. He is a distinguished technology leader with a deep background in AI, cloud computing, and web development, currently serving as the Director of Technology and Development at Clarity Voice. Mike is interested in discussing his expertise and recent projects, believing that it would make an engaging episode for the audience.

Review his comprehensive dossier ([Mike Onslow Dossier](#)) for detailed professional insights and potential discussion topics. His background suggests he could provide valuable contributions to our discussions on AI and tech innovations.

Respond to Mike Onslow at [mdonslow@gmail.com](mailto:mdonslow@gmail.com) to coordinate scheduling if interested. Ensure to align it with the podcast themes and potential availability.

Check [Artificial Antics Podcast](#) to match the topics he's interested in discussing with the themes of upcoming episodes.

Potential topics:

- Leave
- Members
- Labels
- Checklist
- Dates
- Attachment
- Location
- Cover
- Custom Fields

+ Add Power-Ups

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# CASE STUDY | EMAIL MANAGEMENT

## CREATE TRELLO CARD

A screenshot of a Trello card interface. At the top, there's a sidebar titled "Potential topics:" with a list of bullet points: "AI in telecommunications", "Cloud-based solutions development", "Ethical considerations in AI", and "Recent projects and insights into AI-driven customer service platforms". Below this is a "Show more" button. The main area has a "Attachments" section showing a file named "original-email.eml" (type EML) added 8 hours ago. Under "Coordination steps for inviting Mike Onslow", there are two items: "Review Mike Onslow's dossier at [mikeonslow.dev](http://mikeonslow.dev) for detailed background information and discussion topics." and "Align potential discussion topics with upcoming podcast themes.". Both items have checkboxes next to them. A progress bar shows 0%. To the right, there's an "Automation" section with a "+ Add button" and an "Actions" menu with options: Move, Copy, Mirror, Make template, Archive, and Share. The entire card has a rounded rectangular border.

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# CASE STUDY | EMAIL MANAGEMENT

## AUTO DRAFT RESPONSE

A screenshot of an email inbox interface. At the top, there's a header with the recipient "Mike Onslow" and the subject "to me". The timestamp is "4:32 AM (4 hours ago)". Below the header is the email content, which is an auto-draft response. The message starts with "Hi Mike and Rico," followed by a paragraph about the sender's recent listening to a podcast episode and their interest in Dr. Emily Carter. It continues with information about Dr. Carter's background and expertise, and ends with a closing statement and contact details. At the bottom of the email, there's a reply section with "Mike Onslow (gmail.com)" and a message body starting with "Dear John,". The message body contains a thank you note and an invitation to book a time via a Google Calendar link. The interface includes standard email controls like "Send", "Reply", "Compose", and "Delete".

Hi Mike and Rico,

I recently listened to your episode "The Future of AI in Healthcare" and was captivated by your discussion on the impact of AI in medical diagnostics. The insights on how AI can improve patient outcomes through predictive analytics were truly enlightening.

Given Dr. Emily Carter's extensive background in AI-driven healthcare solutions, I believe she would be an excellent fit for your show. As the Chief Medical Officer at MedTech Innovations, Dr. Carter has worked on pioneering projects that merge AI with healthcare systems to optimize clinical decision-making and enhance patient care.

Her expertise in AI ethics, particularly around patient data privacy, could provide valuable insights that would resonate well with your audience. I would love to connect you with Dr. Carter if you're open to featuring her on the podcast.

Looking forward to hearing your thoughts!

Best regards,  
John Davis  
Outreach Coordinator  
MedTech Innovations

Dear John,

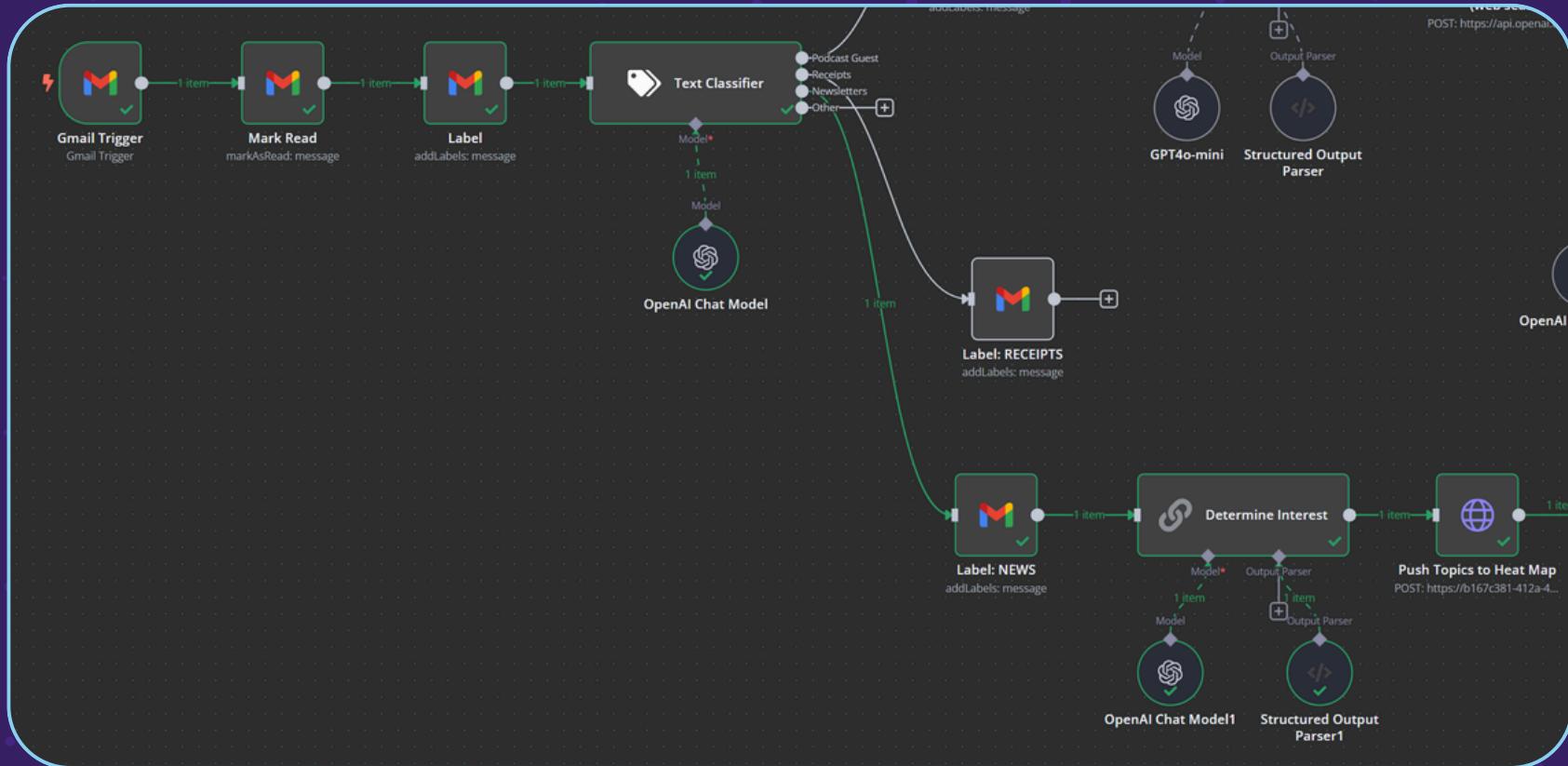
Thank you for reaching out on behalf of Dr. Emily Carter. We are excited about the potential of having Dr. Carter as a guest on our podcast, "Artificial Antics". To discuss this further, we invite Dr. Carter to book a time via the following link: <https://calendar.google.com/calendar/u/0/appointments/schedules/AcZssZ1NH2r2O5k0AaBU-ncJnL1F9Q3bi4CYUWB1zogDy37lqX3luN7eTlrQf0SLXbFFj-Dg4BTY5s>. Looking forward to the conversation! Best regards, Mike Onslow Artificial Antics Podcast

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# CASE STUDY | EMAIL MANAGEMENT

## DETERMINE ARTICLE RELEVANCE

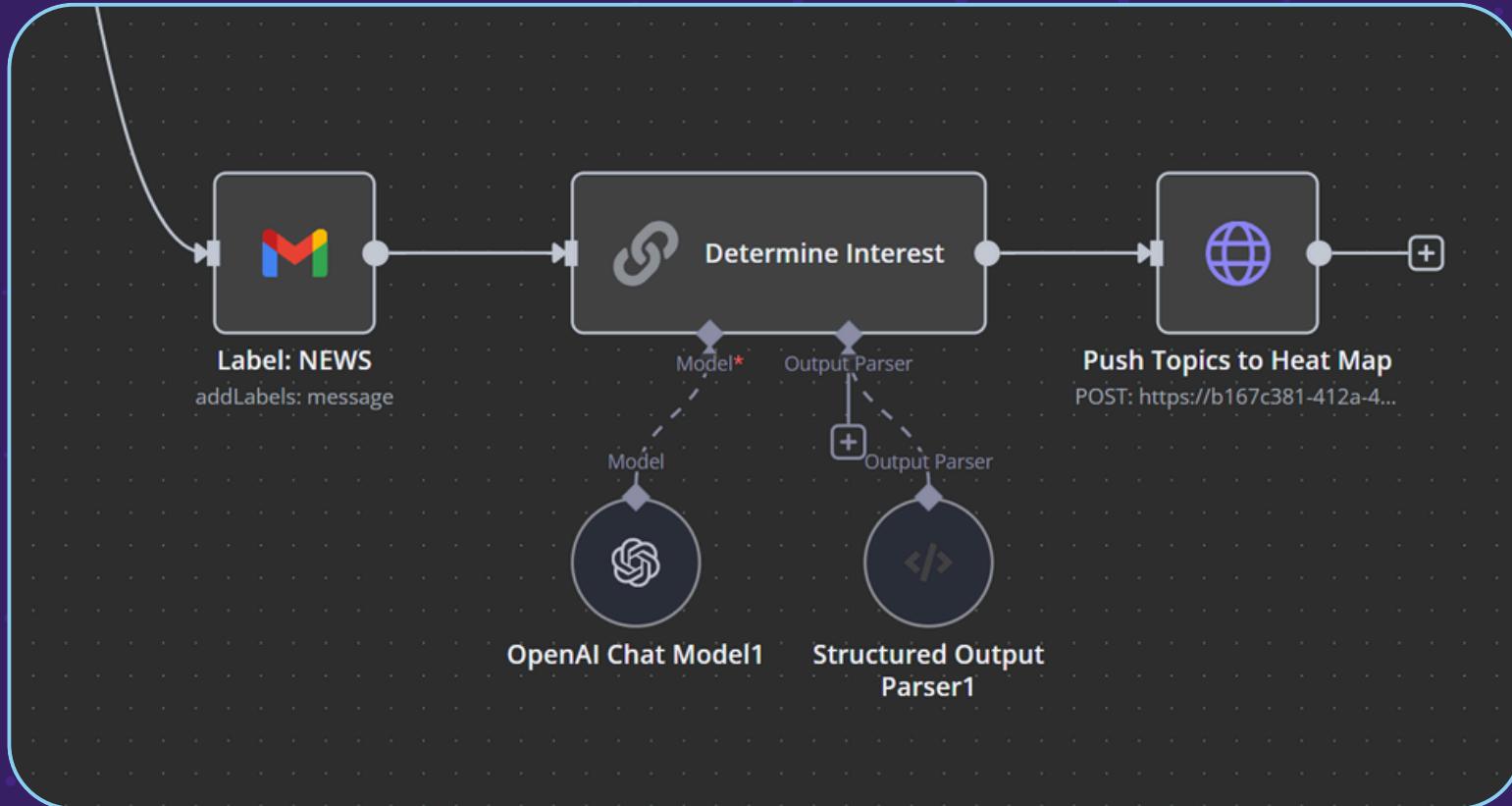


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# CASE STUDY | EMAIL MANAGEMENT

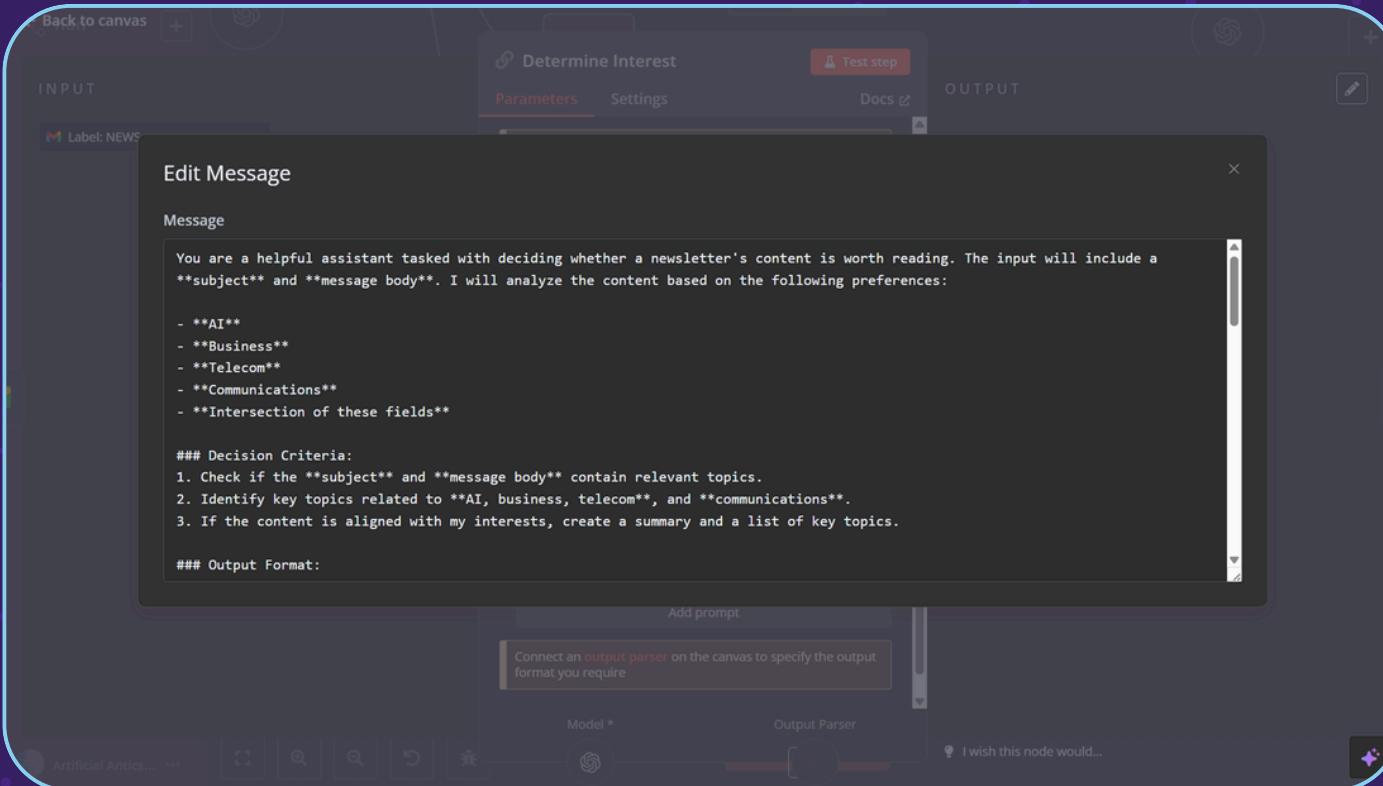
## DETERMINE ARTICLE RELEVANCE



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# CASE STUDY | EMAIL MANAGEMENT ARTICLE RELEVANCE | PROMPT



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# CASE STUDY | EMAIL MANAGEMENT

## DETERMINE ARTICLE RELEVANCE

The screenshot shows a portion of the n8n workflow interface. On the left, there's a 'Test step' node with a 'Fixed Expression' input field containing the value 'apple'. To the right is an 'OUTPUT' node. The 'OUTPUT' tab is selected, showing the following JSON response:

```
[{"status": "success", "message": "Added topics: Apple Siri leadership change, AI development, Meta AI launch"}]
```

A callout bubble from the bottom right highlights a specific part of the JSON message:

```
"2025-03-23": { "Apple Siri leadership change": 1, "AI development": 1, "Meta AI launch restrictions in Europe": 1, "Anthropic Claude AI updates": 1, "Telecom innovations": 1 }
```

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# CASE STUDY | EMAIL MANAGEMENT

## PUSH ARTICLE TOPICS



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# OTHER EXAMPLES INFORMATION MONITORING

A screenshot of a n8n workflow interface. The title card says "AI-Powered Information Monitoring with OpenAI, Google Sheets, Jina AI and Slack". It was published 1 month ago by Dataki. Categories include Sales, Engineering, Product, AI, and Marketing. A green button at the bottom says "Use workflow" and "FREE". The main area shows a complex flowchart of nodes connected by arrows, representing the automation process.



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# OTHER EXAMPLES INFORMATION MONITORING

topic-monitoring

Messages Add canvas +

## topic-monitoring

You created this channel today. This is the very beginning of the topic-monitoring channel.

Add description Add coworkers

Artificial Antics 3:55 PM joined topic-monitoring.

Artificial Antics 3:56 PM New article from n8n Blog

[15 Practical AI Agent Examples to Scale Your Business in 2025](#)

**Summary of the article**

This article delves into the transformative role of AI agents, highlighting their capability to automate complex tasks with intelligence. It covers 1 decisions based on real-time data. Additionally, platforms like n8n provide the tools necessary to build and scale these AI agents for practical us

**What is an AI agent?**

AI agents are autonomous tools that perform tasks and make decisions by interpreting natural language and processing data. They can adapt ba

**Types of AI agents:**

- \*\*Simple reflex agents\*\*: Respond based on current data.
- \*\*Model-based reflex agents\*\*: Use internal models of the world to make decisions.
- \*\*Goal-based agents\*\*: Focus on achieving specific objectives.



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# OTHER EXAMPLES LEAD GENERATION

The screenshot shows a workflow titled "Generate Leads with Google Maps" created by Alex Kim. The workflow is published 3 months ago and is categorized under Sales and Marketing. It includes a "Data Prep" section and a "Google Maps API" section. A "Triggers" panel shows a scheduled trigger every 1 hour. A "Settings" panel contains configuration options. At the bottom, there are four small icons: a magnifying glass, a gear, a plus sign, and a question mark.



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# TEMPLATES

A screenshot of the n8n website's template library. At the top, there's a navigation bar with the n8n logo, "Product", "Use cases", "Docs", "Community", "Enterprise", "Pricing", "Sign in", and a green "Get started" button. Below the navigation is a large heading "1533 Workflow Automation Templates" with a yellow sun icon. A sub-header says "Explore 1000+ workflow templates submitted by our global creator community". There's a search bar with placeholder text "Search apps, roles, usecases..." and a magnifying glass icon. Below the search bar is a grid of category filters: AI, SecOps, Sales, IT Ops, Marketing, Engineering, DevOps, Building Blocks, Design, Finance, HR, Other, Product, and Support. A section titled "Newcomer essentials: learn by doing" features a thumbnail for a template titled "Creating an API endpoint". The thumbnail shows a workflow diagram with three nodes: "Webhook", "Create URL string", and "Respond to Webhook".

<https://n8n.io/workflows>



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# QUESTIONS?



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Clarity Voice | Artificial Antics

email: mike@antics.tv

x: mike\_onslow

linkedin: mikeonslow

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