

A woman's profile is shown in grayscale, looking towards the right. The background is a vibrant, abstract, painterly composition with swirling colors of purple, blue, green, and red, resembling a digital or AI-generated artwork. The text is overlaid on this background.

ArtConnect AI

An AI-Powered Promotion Assistant for the Modern Artist

Course: ITAI 4373

Client: Joe Fleishman

Team: Creative Intelligence Co. (CIC)

Members: Win Aung, Hoang Dinh, Kolapo Mogaji, Liqa Hasan Syed Mohammed Zaidi

The ArtConnect AI Proof-of-Concept

What It Is

A bespoke AI tool that monitors social media platforms to identify high-potential engagement opportunities for artists.

It scores leads, suggests personalized replies, and provides actionable analytics via a simple dashboard.

Why It Was Built

To empower independent artists like our client, Joe Fleishman, by automating the time-consuming process of digital promotion and audience engagement.

Who It's For

Our client is Joe Fleishman, a professional artist seeking to increase his online visibility, connect with buyers, and dedicate more time to his creative work.

The Modern Artist's Dilemma: Drowning in Digital Noise

For artists like Joe, creative talent is no longer enough. Success requires constant online engagement, a full-time job in itself.



Finding Buyers

Manually sifting through thousands of interactions to find genuine collectors, galleries, and patrons is inefficient and often fruitless.



Low Engagement

Generic interactions fail to build a loyal community. Meaningful connection requires personalized, consistent communication



Time Scarcity

Every hour spent on social media is an hour not spent creating art. This administrative burden directly impacts creative output.



Limited Visibility

Breaking through the noise to reach a wider, relevant audience is a constant struggle against platform algorithms.

Our Strategic Goals: Intelligent Amplification, Not Automation

The goal is not to replace the artist, but to provide an intelligent assistant that enhances their reach and effectiveness.

1

Human-in-the-Loop by Design

Ensure the artist (Joe) retains full control over his voice and interactions. Every AI suggestion requires human approval. This is an ethical cornerstone.

2

Surface High-Value Opportunities

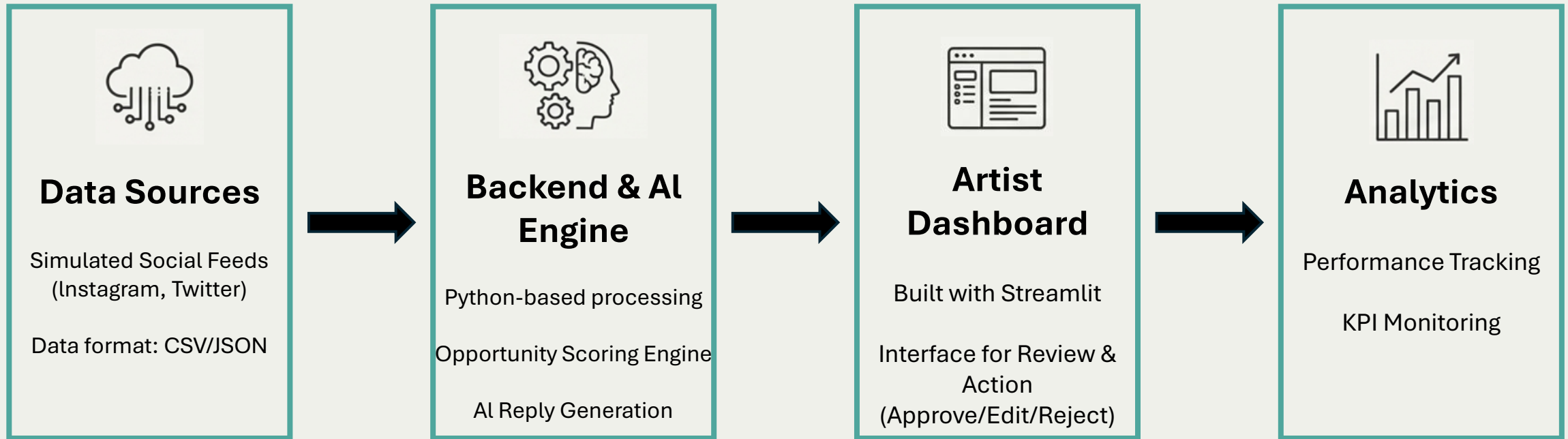
Move beyond vanity metrics. Focus on identifying and prioritizing interactions that lead to sales, gallery representation, and meaningful connections.

3

Reclaim Creative Time

Drastically reduce the manual effort of social media monitoring, giving the artist more time for what matters most: creating.

System Architecture: A High-Level Blueprint



The Technology Stack



Python: The core programming language for all backend logic and data processing.



CSV/JSON Datasets: Simulating real-time data feeds from social platforms for this proof-of-concept.



GitHub: For version control, collaborative development, and project management.



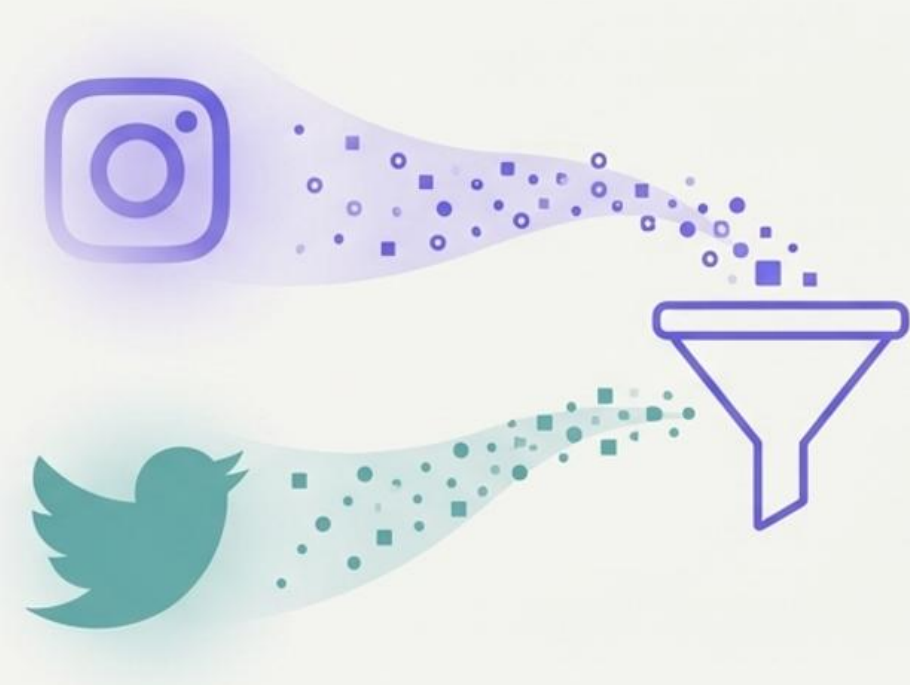
Streamlit: Used to rapidly develop and deploy the interactive, web-based user dashboard.



AI Language Model: The foundation for generating context-aware, brand-aligned reply suggestions.

Platform Monitoring: Capturing the Signals

The system continuously processes simulated data feeds from Instagram and Twitter to identify relevant user interactions.



Data Points Collected

User Handle & Bio

Keywords (e.g., "collector,"
"gallery," "commission")

Follower Count

Engagement Type (Follow,
Like, Comment, Mention)

Post/Comment Content

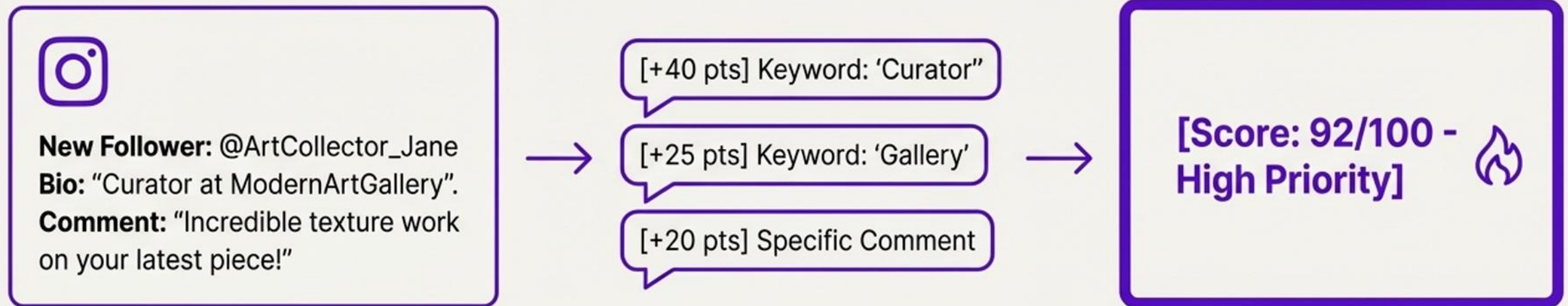
User History (past
interactions)

The Opportunity Scoring Engine: From Noise to Priority

Every interaction is assigned a score from 0-100 based on a weighted analysis of key features, allowing the artist to focus only on what matters.

What Increases a Score?

- Keywords in user bio ('collector', 'curator', 'gallery')
- High follower count
- Specific, thoughtful comment content vs. generic emoji
- Direct mentions or inquiries



AI Reply Suggestions: On-Brand, Every Time

The “Brand Voice” Foundation

The AI is primed using a "brand voice" document describing Joe's communication style: "Passionate, humble, references artistic techniques, and often mentions his inspirations."

Thanks so much! 😊

(Generic Reply)

Prompt Engineering

Each suggestion is generated from a dynamic prompt that includes the user's comment, their profile information, and Joe's brand voice.

Thank you, @ArtCollector_Jane! I'm glad you noticed the texture. I used a cold wax medium to achieve that effect, inspired by the works of Richter.

(ArtConnect AI Suggestion)

Caption: All suggestions are presented in the dashboard for the artist to **Approve**, **Edit**, or **Reject**, ensuring 100% control.

The ArtConnect Dashboard: Your Mission Control

Prioritized Opportunities Table

A sortable list of all incoming interactions, ranked by Opportunity Score. See platform, user, and the triggering comment at a glance.

Prioritized Opportunities Table

Score	Platform	User	Comment
[92]	Instagram	@ArtCollector_Jane	"Incredible texture work on your latest piece!"
[88]	Linkedin	John Smith	"Your technique is fascinating. Are you showing..."
[75]	Twitter	@GalleryGazer	"This needs to be seen in person! Wow!"

Comment: "Incredible texture work on your latest piece!"
- @ArtCollector_Jane

AI-Suggested Reply

Thank you, @ArtCollector_Jane! I'm glad you noticed the texture. I used a cold wax medium to achieve that effect, inspired by the works of Richter.

Approve

Edit

Reject

AI-Suggested Reply

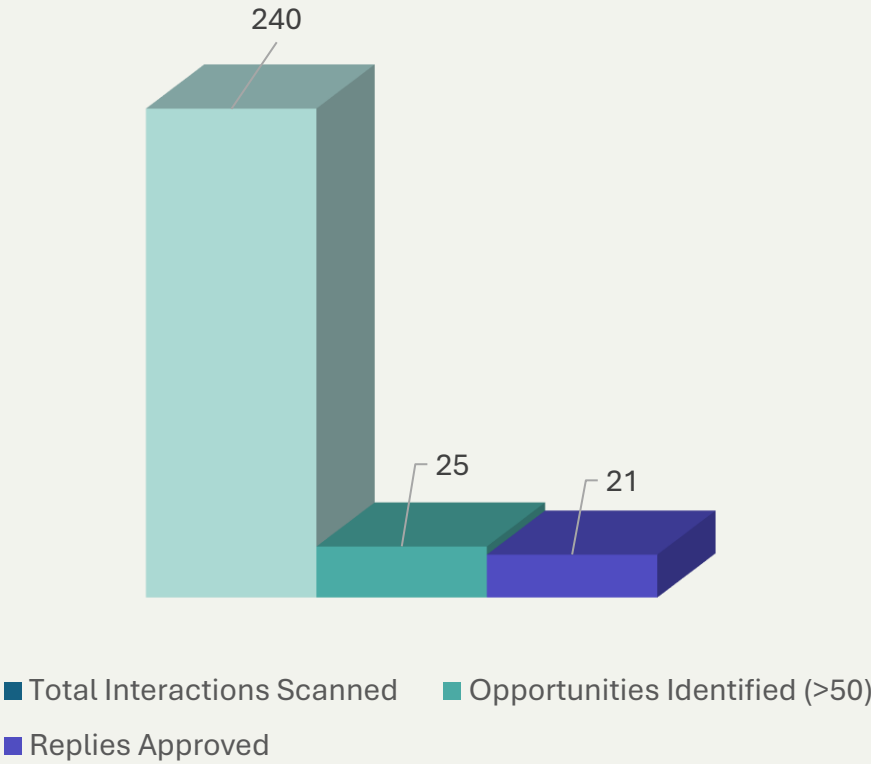
The brand-aligned reply suggestion appears here, ready for review.

Action Buttons

Simple, one-click 'Approve', 'Edit', or 'Reject' controls to manage every interaction.

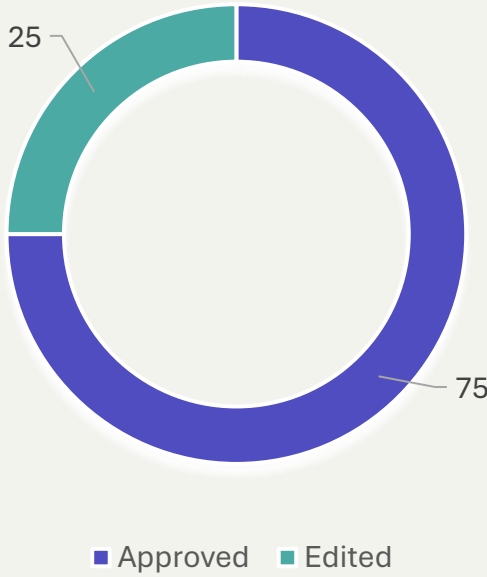
Analytics & KPIs: Measuring What Matters

Engagement Funnel



Insight: Visualize the system's efficiency in filtering signal from noise

AI Suggestion Approval Rate



Insight: This KPI helps us measure the quality and relevance of the AI suggestions over time. A high approval rate indicates the AI is well-aligned with artist's voice

Performance Results: Tangible Impact from the POC

25+

High-Value Opportunities Identified

(Directly addresses: Finding Buyers) Connections with users identified as potential collectors, gallery contacts, and press.

5+

Hours/Week Saved (Estimated)

(Directly addresses: Time Scarcity)
Time saved from manual social media monitoring and reply composition.

85%

AI Suggestion Approval Rate

(Demonstrates system quality)
High artist confidence in the AI-generated, on-brand replies.

15%

Projected Engagement Increase

(Directly addresses: Low Engagement & Visibility)
Based on the quality and consistency of personalized replies deployed via the system.

Responsible Alby Design: Our Ethical Framework



Human-in-the-Loop

The system is an assistant, not an automaton. Final authority always rests with the artist, preserving authenticity and preventing misuse.



Transparency & Safety

The dashboard clearly shows why an opportunity was scored highly. There are no 'black boxes.' The AI is designed to avoid generating harmful or off-brand content.



Platform Compliance

The system operates within the Terms of Service of social platforms, using simulated data in the POC to respect API limitations and user privacy.

Key Lessons Learned Across the Project

Technical

- The importance of high-quality, labeled data for training the scoring model cannot be overstated.
- Streamlit proved to be an excellent choice for rapid, iterative development of a user-facing dashboard.

Business

- Deeply understanding the client's daily workflow was more critical than any single technical feature. The 'brand voice' document was a pivotal discovery.

Team Collaboration

- Constant communication between the 'business' and 'technical' sides of the team was essential to keep the project aligned with Joe's core needs.

The Future of ArtConnect: From POC to Platform

Summary of Value

ArtConnect AI has successfully proven its ability to save artists time, surface critical opportunities, and enhance their digital presence in an authentic, controlled manner.

Future Roadmap



1. **Live API Integrations:** Connect directly to Instagram and Twitter APIs for real-time data processing.



2. **Self-Improving ML Scoring:** Replace the rule-based engine with a machine learning model that learns from the artist's approve/reject decisions.



3. **Proactive Trend Detection:** Analyze broader market trends to suggest relevant hashtags, topics, and content ideas to the artist.



4. **Multi-Artist Platform (SaaS):** Evolve the tool into a subscription service that can support multiple artists, each with their own unique brand voice.