# LexTrack AI

AI-Powered Reddit Community Discovery & Outreach Platform

**Problem:** Finding the right Reddit communities and crafting native-feeling posts is manual, slow, and error-prone.
**Solution:** An end-to-end AI system that discovers, analyzes, generates, publishes, and monitors — all from one interface.

## Pipeline

| # | Stage | What Happens |
|---|---|---|
| 1 | **Company Input** | Product description, audience, keywords |
| 2 | **Subreddit Discovery** | AI ranks top 10 subreddits with relevance scores + reasoning |
| 3 | **Deep Scrape** | Last 50 posts per subreddit → tone, rules, topic analysis |
| 4 | **Post Generation** | 3 variations per sub: Organic User \| Company \| Subtle Engagement |
| 5 | **Review & Publish** | Edit any post, select targets, publish via Reddit API |
| 6 | **Monitor Dashboard** | Upvotes, comments, sentiment analysis, recommendations |

## Tech Stack & Scope

| Layer | Stack |
|---|---|
| Frontend | React / Next.js |
| Backend | Python + FastAPI |
| AI Engine | Claude / GPT API |
| Reddit | PRAW + OAuth2 |

| Component | Data |
|---|---|
| Discovery & Ranking | **LIVE** |
| Scraping (50 posts/sub) | **LIVE** |
| AI Post Generation | **LIVE** |
| Reddit Posting | **LIVE** |
| Monitoring Dashboard | **SIMULATED** |

## Why This Stands Out

**Context-aware posts** — generated from 50 real posts per subreddit, not generic templates • **3 strategic variations** — organic, professional, and subtle per community • **Full editorial control** — every post is editable before publishing • **Explainable AI** — every recommendation includes score + reasoning • **Real pipeline** — live scraping, live generation, live posting via Reddit API

LexTrack AI — Hackathon Project Proposal — Team of 4