Caprae Capital Submission - Lead Scoring & Deduplication Tool

Tool Name: caprae leadgen scraping

Overview:

I chose the 'Quality First' approach to improve the most critical phase in the lead generation funneldata

validation, cleaning, and enrichment. Rather than replicating scraping logic, my tool focuses on

ensuring that leads are reliable, accurate, and prioritized for outreach.

Approach:

The app is built using Python and Streamlit, offering a lightweight web interface that allows users to

upload CSV files of leads, automatically validate them, score their potential, and export cleaned

results.

**Model Selection:** 

A rule-based heuristic model was applied instead of a machine learning model. Lead quality is

calculated based on:

Email validity (regex validation)

Free domain detection (e.g., gmail.com)

Revenue tiering (parsed from 'Cr' to int)

Employee strength

Missing website or phone fields

Each factor contributes positively or negatively to a total lead score, which is then categorized into

High, Medium, or Low priority leads.

**Data Preprocessing:** 

Removed duplicates based on Company and Email.

Cleaned missing values and whitespace

Added Google-based LinkedIn search URL enrichment

Parsed numeric fields and normalized formats

**Performance Evaluation:** 

Accurate filtering of invalid and free emails

Successfully prioritized leads based on real business indicators

Deduplication logic removed redundant contacts while preserving one unique row. Users

can export both cleaned data and removed duplicates for auditability

**Business Rationale:** 

Caprae seeks better leads, not just more leads. This tool ensures clean, enriched, and prioritized leads

ready for sales engagement aligning directly with Caprae's value proposition. The interactive UI and

CSV-based workflow makes it deployable into any sales funnel with minimal effort.

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