Andhra Trade License Extractor: Java + Selenium for Scalable Lead Generation
Using Hash Map data structure

Unlocking business potential through automated data extraction.

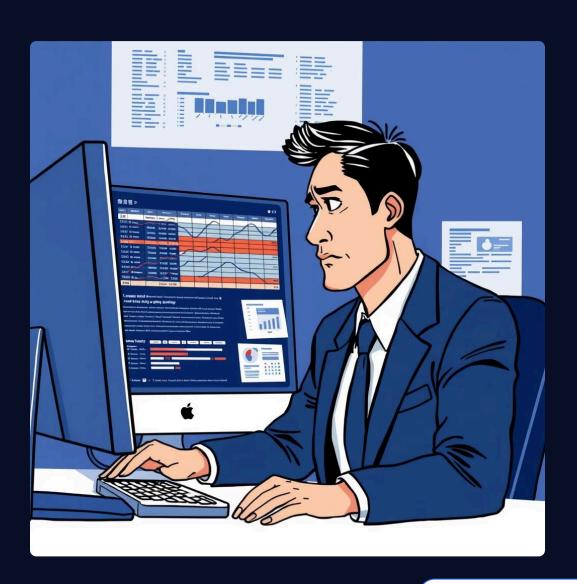
Why this project

- Introduction: The Challenge of Manual Data Collection
- Our Solution: Project Highlights and Technology
- Why Java? Core Advantages for Data Mining
- Key Differentiator: Multi-System Parallel Scraping
- Tangible Outcomes and Impact

The Challenge: Inefficient Data Collection

Manual data collection from trade license portals is a time-consuming and inefficient process, often leading to:

- High labour costs
- Delayed lead generation
- Inaccurate or outdated information



The Need: Active Customer Data for Tele-Sales



Sales and marketing teams require large volumes of **active customer data**, particularly mobile numbers, to:

- Improve tele-sales outreach effectiveness
- Enhance lead qualification
- Drive targeted marketing campaigns

Our Solution: Project Highlights



Automated Extraction

Utilises Selenium WebDriver with generic XPath for intelligent traversal of dynamic web elements.



Active User Filtering

Only "Active" users are filtered and stored, ensuring high-quality leads.



Duplicate Prevention

HashMap, with License Number as key, avoids duplicate entries through efficient hashing.



CSV Export

Mined data is organised in-memory via ArrayLists and exported to readily usable CSV files.

Why Java for This Solution?



Platform Independence

Java ensures the solution runs seamlessly across various operating systems without modifications.



Speed & Scalability

Leverages Java's performance for rapid data processing and scalability to handle large datasets.



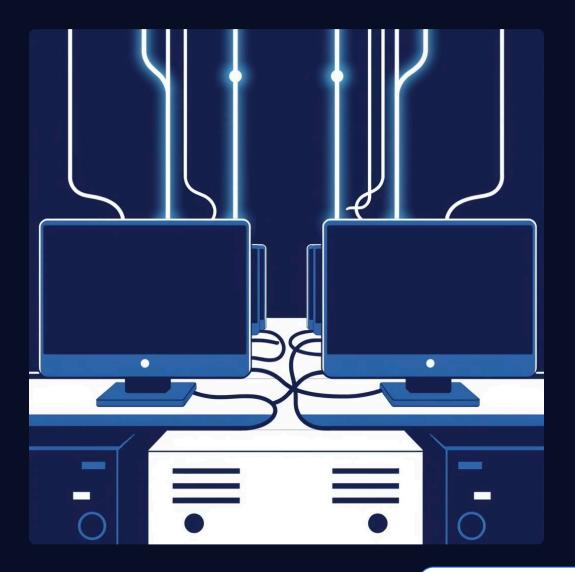
Easy Deployment

Executable via JAR files and BAT scripts, eliminating the need for an IDE on deployment systems.

Best Feature: Multi-System Parallel Scraping

The extractor supports **simultaneous operation across multiple systems**, enabling:

- Massive-scale data mining
- Rapid extraction of records (e.g., 20k records per system)
- Significant reduction in overall data acquisition time

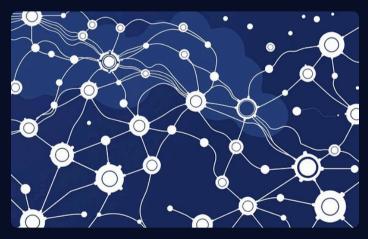


Achieving Scale: 50,000+ Active Licenses

Our objective is to build a scalable, automated web scraping system to extract and organise over **50,000+ active trade license entries** from the Andhra Pradesh Trade License portal.







Tangible Outcomes & Business Impact

50K+

Verified Records

Automated pipeline for mining a high volume of accurate customer records.

20%+

Tele-Sales Boost

Provides precise, deduplicated leads, directly enhancing tele-sales performance.

50%+

Manpower Reduction

Significantly reduces the time and human resources required for lead generation.

Next Steps

- Demonstration of the system in action.
- Discussion on deployment and integration within your existing infrastructure.
- Customisation options to fit specific data requirements.

Let's unlock the potential of automated lead generation for your business.

Data Source Webpage Image

