MediPriceInsight

BUAN 6390.001 - Analytics Practicum

Professor: Mandar Samant

Project Mentor: Vijay Koneru

Group members: (Team 3)

- Tarun Raghu TXR230002
- Pratham Khubchandani PXK230013
- Krishna Apurva KXA230007
- Apoorva Shukla AXS220598
- Shanvi Shivali Kothapalli SXK220320

- Siva Srinivas Narra SXN230069
- Rahul Sadineni RXS230051
- Aarthik Kothuri AXK230022
- Naga Harshath Medisetti NXM220059

What if healthcare pricing was as transparent as booking a flight?

"Today, it's not."

MediPriceInsight:

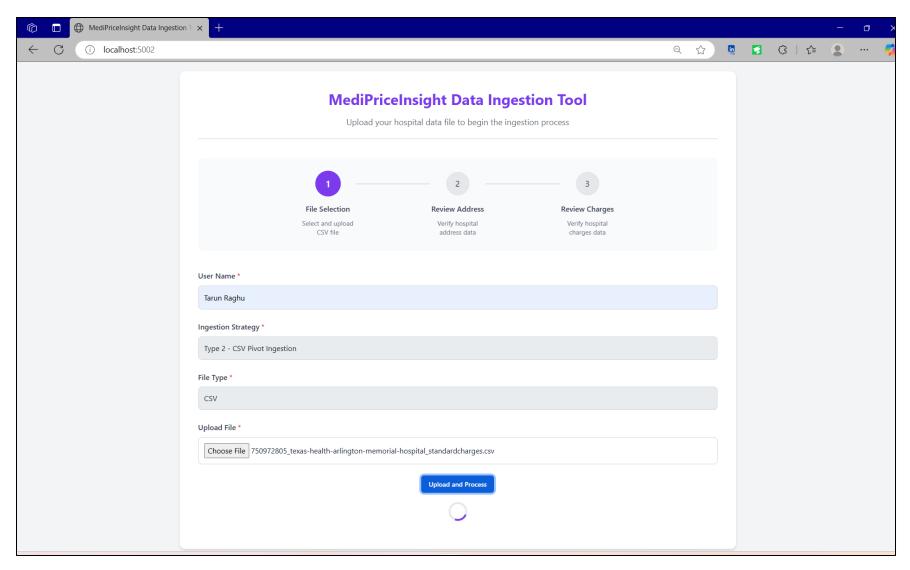
From Raw Data to Real Decisions

"Transforming chaos into clarity — at scale."

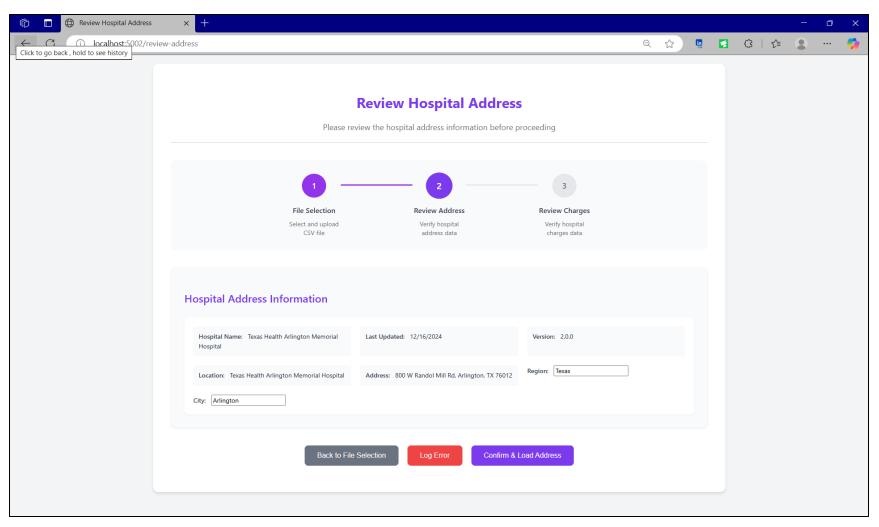
Let's See It In Action

"From messy file... to usable insight — in minutes."

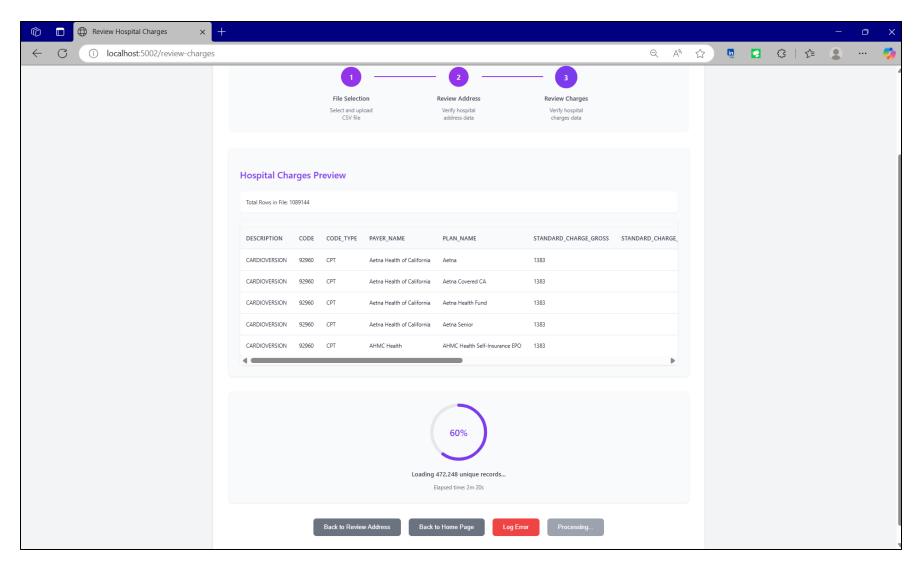
Ingestion Step 1



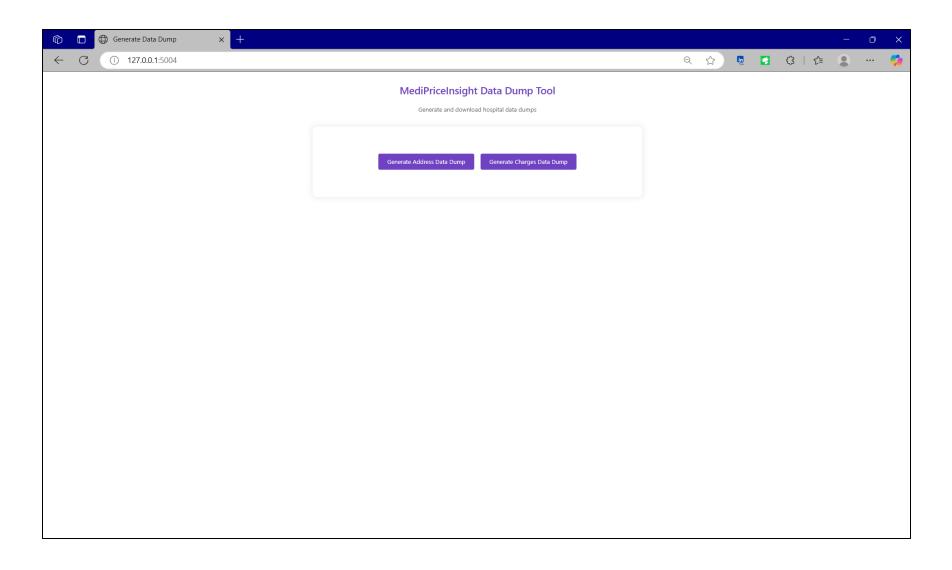
Ingestion Step 2



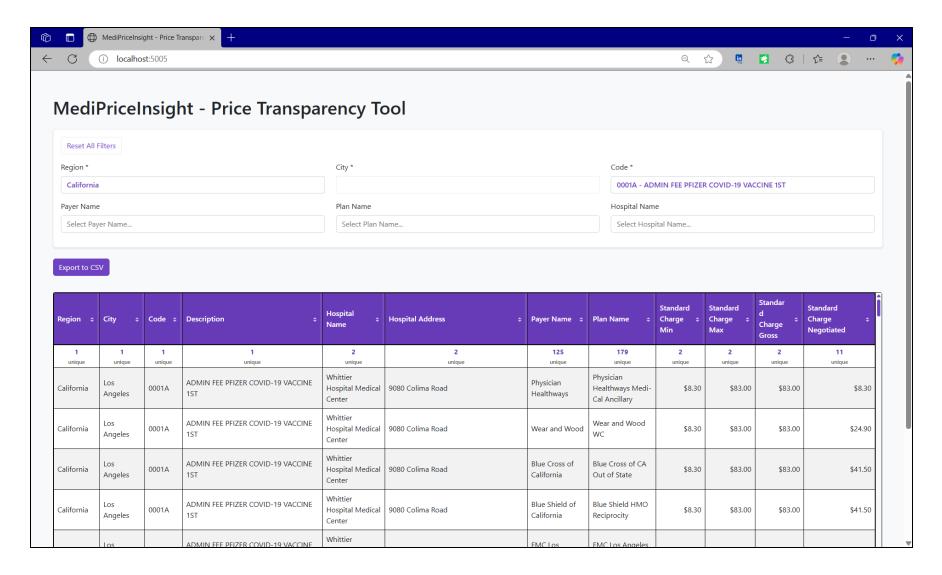
Ingestion Step 3



Request Data Dump Page



Tabular Report



Ingestion Summary

- Type 1 Ingestion 11
- Type 2 ingestion 10
- Type 3 Ingestion 8
- 29 in total (30 after this demo)
- Prominent Hospitals loaded Medical City, Baylor Scott, Texas Health, Anaheim Region Medical Center, Keck Hospital of USC
- Regions covered Los Angeles, Anaheim, Long Beach, Arlington, Dallas, Fort Worth
- Prominent Providers Aetna, BCBS, United Health Care, Molina, Humana

What's Next: Scaling, Integrating, Empowering

- "From data transparency to decision intelligence."

- 1) Leveraging ICD (International Classification of Diseases) or DRG (Diagnosis Related Group)Codes for Data Standardization
- 2) Packing the entire product as a Docker Image
- 3) Roll out the product to cover other states and metropolitan areas
- 4) Our ingestion tool handles 80% of the required data.

Lessons in Building for the Real World

- "From academic vision to industry-grade execution."

- 1) Dealing with large files through PySpark
- 2) Dealing with complex formats such as Nested JSON, Pivoting
- 3) Product Mindset with no code approach
- 5) Responsive tabular report which works on 6+ million rows
- 6) Building an end-to-end pipeline and getting a glimpse of the how Healthcare in US works
- 6) Using AI tools such as Cursor AI for coding , learning to prompt better to get the desired result .

From Confusion to Confidence

- "Making healthcare data usable, understandable, and powerful."