

H-1B Visa Data Analysis

Understanding H-1B
Employer Petitions in the USA

Team 4

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What is the H-1B visa program?

- The H-1B visa program allows U.S. employers to hire foreign professionals in specialized fields, requiring skills generally aligned with a bachelor's degree or higher. Fields include technology, engineering, finance, healthcare, and more.
- This visa is essential for companies seeking highly specialized talent unavailable within the domestic labor pool, notably in STEM fields.
- Given its popularity, the H-1B program is subject to caps, and petition approvals are based on specific criteria set by U.S. Citizenship and Immigration Services (USCIS).





Data Contents

- The H-1B Employer Data Hub contains information on employers in the United States who have submitted petitions to employ H-1B nonimmigrant workers from fiscal years 2009 through 2024.
- The dataset includes details such as employer name, location (city, state, zip code), industry classification (NAICS codes), and outcomes of H-1B petitions, categorized as initial or continuing approvals and denials.
- Additionally, the data provides geographic coordinates for mapping and identifies employers by the last four digits of their tax ID.

Objective

- To analyze trends in H-1B visa petitions across various industries, locations, and petition outcomes, uncovering insights into the U.S. employment landscape for skilled foreign workers.
- Understand the patterns in approval and denial rates, how industry needs shape H-1B demand, and where H-1B talent is geographically concentrated.

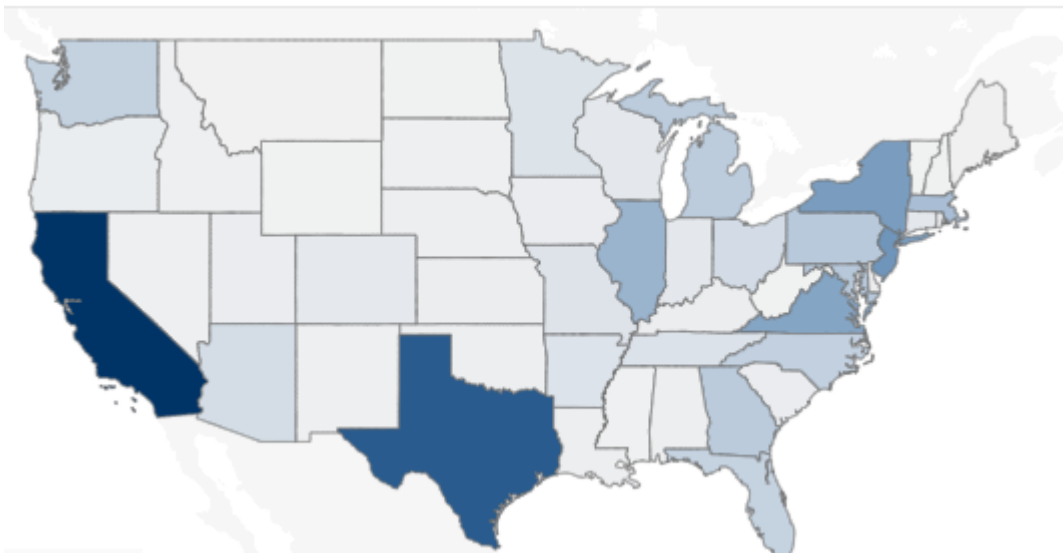
Project Scope

By focusing on metrics like -

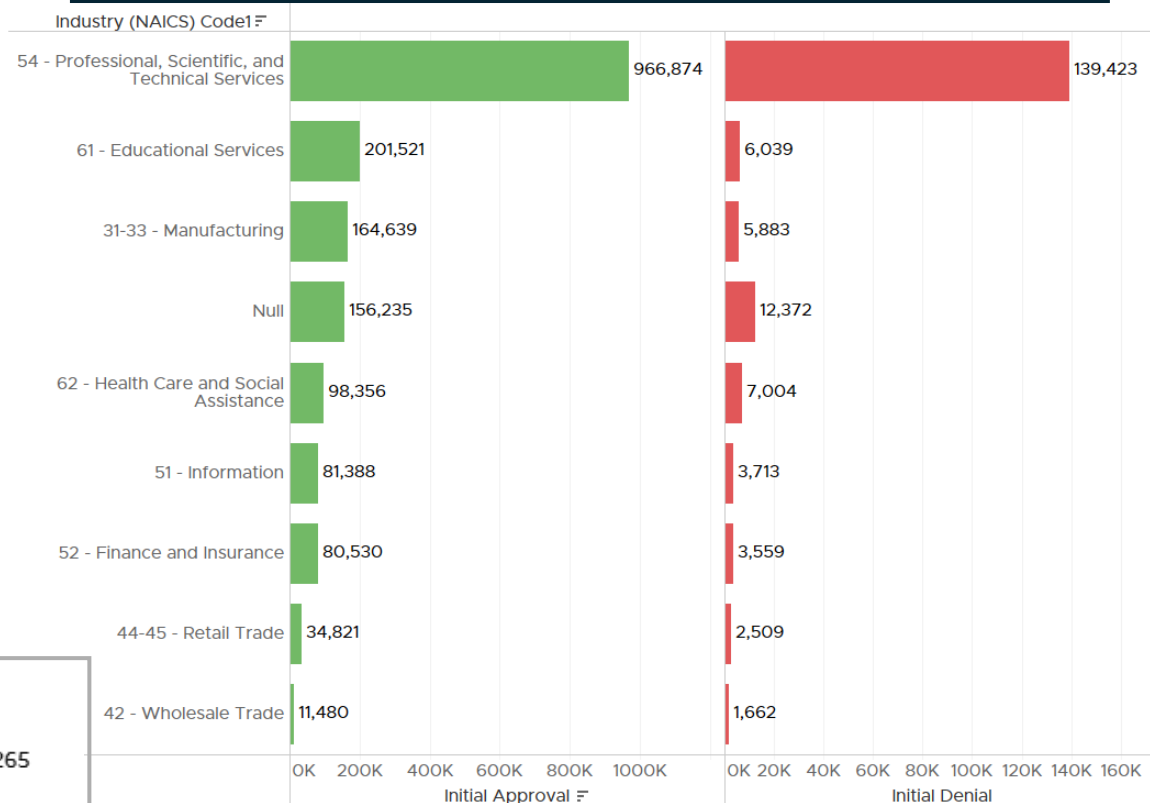
- petition approvals/denials
- industry distribution (NAICS codes)
- geographic patterns
- year-over-year trends

We can highlight patterns that may be affected by policy changes, economic factors, or industry demands, providing a comprehensive view from 2009 to 2024 (Q4).

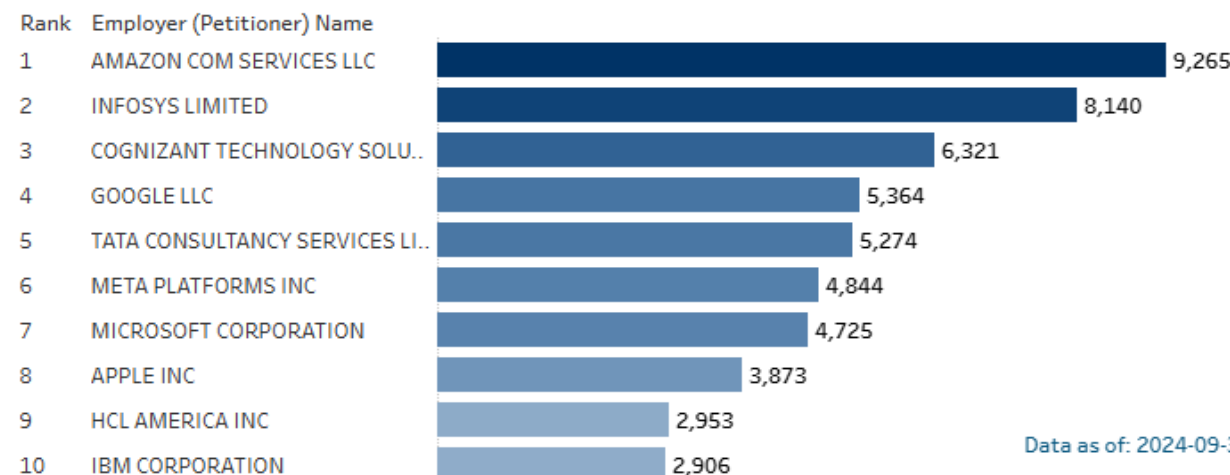
Locations with the most approvals



Initial Approvals & Denials across industries



Beneficiaries Approved by Top 100 Employers



Data as of: 2024-09-30



Exploratory Data Analysis