

## Project Proposal

Group Number: 10

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Our group is investigating the correlation between companies and the number of immigrant employees they hire. We will be identifying employment trends across various industry sectors and analyzing specific companies within the S&P 500 to assess variations in immigrant employment patterns. Our research aims to determine whether certain industries exhibit a higher reliance on immigrant labor and to explore the potential factors influencing these employment trends.

To support our analysis, we will utilize multiple data sources. Immigration data, including statistics on H-1B, H-2A, and H-2B visas, will provide insights into immigrant employment across various industries. Financial data from Yahoo Finance will be used to categorize and analyze publicly traded companies within the S&P 500. Additionally, economic indicators from the Federal Reserve Economic Data (FRED) will be incorporated, particularly focusing on oil and agricultural companies where production costs may impact employment trends.

Initial findings indicate key trends in immigrant employment and market behavior. The first graph presents the total number of H-1B visas issued for publicly listed companies per fiscal year, highlighting fluctuations in employment trends over time. The second graph compares percent changes in stock closing prices with visa issuance trends. The graph shows that fluctuations in visa issuance tend to align with changes in stock market performance. Specifically, years with higher H-1B visa approvals often correspond with periods of stronger market growth, while declines in visa approvals are seen in years of economic downturn. This suggests that investor confidence and corporate hiring practices may be linked, particularly in industries with a high reliance on immigrant labor.

The research is expected to identify patterns in immigrant employment across different industries and determine whether certain sectors exhibit a higher reliance on immigrant labor. The study will assess the extent to which economic and regulatory factors influence these employment trends. The findings will contribute to a better understanding of how industries and specific companies integrate immigrant labor into their workforce and the potential implications of policy changes on employment patterns.

The next step in our research is to gather and double-check our data to make sure it is accurate and relevant. We will then use statistical tools, including regression analysis, to explore the relationship between the number of immigrant employees and the types of companies hiring them. This will help us see if certain industries rely more on immigrant labor and if other factors, like economic trends, play a role. As we move forward, we will refine our approach based on the data and continue to develop a clearer picture of these employment patterns.

