Summary

The Startup Matching Engine was developed to intelligently connect startup Founders with the most suitable Service Providers and Mentors. Using a structured, rule-based scoring system (out of 100), the engine evaluated compatibility across five key dimensions: industry relevance, skill match, project type alignment, timeline compatibility, and startup-stage expertise.

From the dataset of 100 users (50 founders, 50 providers/mentors), the engine computed match scores for all possible pairs and returned the top 3 recommended matches for both sides. For example, Founder F001 was best matched with Providers S008 and S015 (score: 70), based on shared domain and required skills. Similarly, Provider S001 had top matches like Founder F043 (score: 65), reflecting project fit and timeline alignment.

To help interpret the results, the engine also generated visualizations, including a heatmap of match scores across 10x10 user subsets and bar charts highlighting top matches for sample users. These visuals provided immediate insight into match quality and gaps.

Visual Insights:

- Heatmap shows match scores across founder-provider pairs

- Bar charts highlight top matches for selected users

System Strengths:

- Interpretable results with strong logic backing

- Flexible matching across technical, design, legal, and mentoring needs

- Scalable and ready for integration into matchmaking or project management tools

The output demonstrates a practical, data-driven way to reduce friction in founder-supporter collaboration and ensure high-quality, timely connections within early-stage startup environments.