

What this recommendation system does

This service **intelligently recommends funding foundations** to a charity or a specific project. It doesn't rely on simple filters alone — it combines **AI understanding, relevance scoring, and user behaviour** to rank the best matches.

1. AI-based semantic matching (core of the system)

We use **AI embeddings** to understand *meaning*, not just keywords.

- We convert a charity or project's:
 - Mission & vision
 - Programs & services
 - Target population
 - Focus areas
 - Geographic coverage
- into a numerical “embedding”.
- Each foundation already has its own embedding.
- We then calculate **semantic similarity** between them.

👉 This allows matches like “*youth education*” ↔ “*child development programs*” even if the wording is different.

This contributes **55% of the final score**.

2. Domain relevance scoring (what the charity does)

We check how well the foundation aligns with:

- The charity's **focus areas**
- The **target population** it serves

Scoring:

- Strong overlap → high score
- Partial overlap → medium score
- Weak overlap → lower score

This contributes **20% of the score**.

3. Geographic alignment

Foundations are scored based on how well their funding regions match the charity/project:

- Same locality → highest score
- Same country → medium
- Same region → lower
- No overlap → minimal

This contributes **15% of the score**.

4. User-selected filter boost (optional)

If the user applies filters (e.g. country or region), we:

- **Boost matching foundations**
- **Do not exclude others**

This ensures discovery isn't limited too early.

This contributes **10% of the score**.

5. Final ranking logic

All scores are combined into a **single final score**:

- Semantic match
- Domain relevance
- Geographic match
- Filter boost

Foundations are then:

- Sorted from best to worst
 - Limited to the user's configured recommendation count
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6. Progress & engagement awareness

The system also tracks:

- Whether the charity has submitted:
 - CFS documents
 - LOIs
- Whether a foundation is:
 - Liked
 - Disliked (disliked foundations are excluded)
- Application progress status (0%, 50%, 100%)

This makes recommendations **context-aware**, not static.

7. What the user gets

For each recommended foundation, the user sees:

- A ranked list of best-fit funders
 - A **similarity percentage** (easy to understand)
 - Whether they've already interacted with the foundation
 - Progress indicators for applications
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In simple terms

"This system uses AI to understand what your charity actually does, compares it against what foundations fund, scores each foundation across relevance and geography, and then ranks the best matches — learning from your actions as you go."

[Charity / Project Info]

(Mission, Programs, Location)

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[AI Understanding]

(Meaning, not keywords)

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	Scoring Engine	
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	• Topic relevance	
	• Geographic match	
	• User filter boost	

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[Behaviour Awareness]

(Likes, dislikes, progress)

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[Ranked Foundation List]

(Best matches at the top)