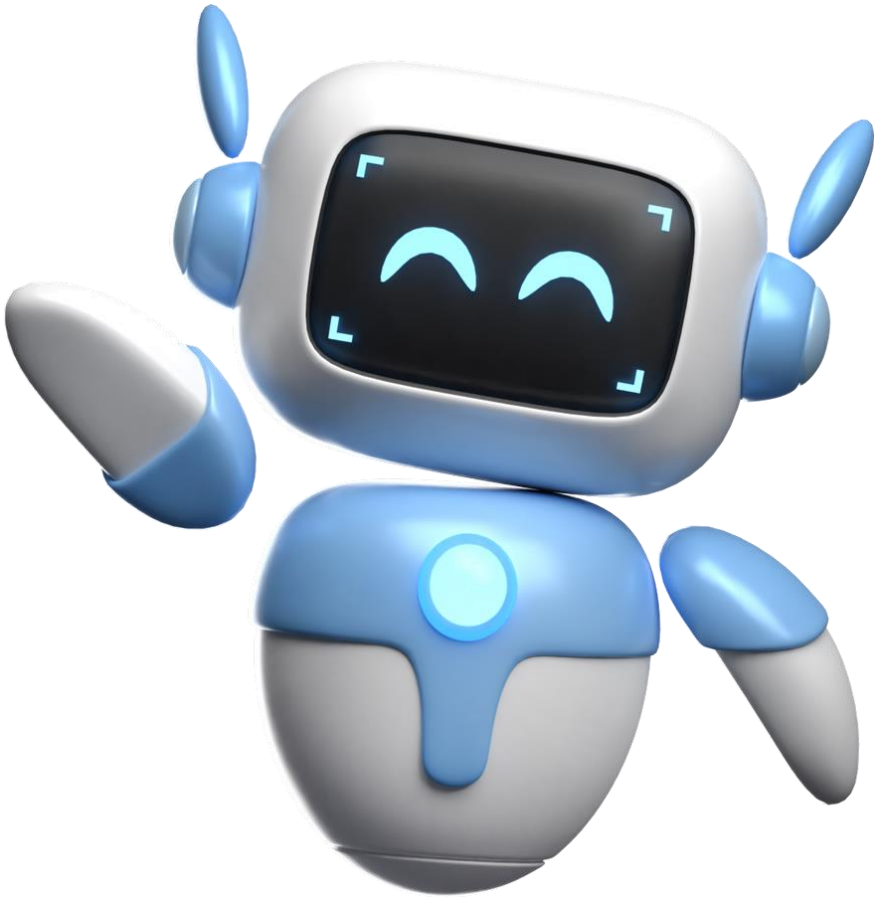

WFP's approach to building an Artificial Intelligence evidence mining tool

Federica Zelada, Evaluation Officer, WFP

Vision & Objectives

Enable quick extraction and utilization of existing evaluation evidence, and generate insights in response to growing organizational needs for succinct products

Facilitate the thematic search from existing evidence

Increased opportunities to inform programme and policy decision-making, and usability of knowledge generated by evaluations

A scalable and lasting approach that could replicated beyond its application in evaluation

Accelerate the information retrieval, pattern identification and dissemination of information

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3 Project Phases

Phase 1 – Document pre-processing and evidence retrieval (on-going)

- **Key deliverables**:
  - Architecture document
  - Automated classification of evaluation documents
  - Semantic search solution
  - Documentation of test and performance
  - Training and documentation for users
- **By end of 2024 solution available to be deployed**

Phase 2 - Identification of patterns and summarization Generative A.I. (Jan - Jun 2025)

- Exploration of **generative A.I**.
- Identification of **patterns & summarization**
- Connection to Application Programming Interface to make the **solution accessible to other systems**

Phase 3 - Recommender system (Jul – Dec 2025)

- Integration of recommender system to **facilitate tailored dissemination**
- Provision of the right information, to the right users at the right time and according to user preference

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What have we done so far

Consultation with UN agencies, international entities and WFP divisions (Technology, Innovations, Programme & Policy) to map systems, identify opportunities for synergies and ensure alignment to existing standards

Gained the **endorsement of WFP's Technology Division Demand Assessment Board**

Advised by a Senior Digital Transformation and A.I. expert on technical aspects

Demo testing and rating of 'off the shelves' AI solutions

Definition of solution features: document pre-processing; semantic search; automatic classification of docs; machine-learning operations model for identification of issues; future proofing for scale up.

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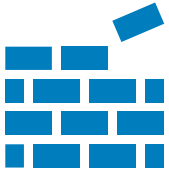
Where we are now



Data Scientist supporting back-end of solution development

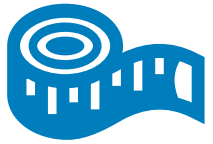
- ✓ Parsing and chunking

Development of testing criteria

- ✓ Development of testing criteria to assess accuracy, relevance, speed and retrieval

Testing of different models, through corporate sandbox environment

- ✓ Google Cloud Platform (GCP)
- ✓ Palantir Artificial Intelligence Platform (AIP)



KPIs

- ✓ Development of metrics to measure gains of AI Solution

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Limitations of readymade off-the-shelf solutions

Most large language models (LLMs) behind Google's "Gemini" or Open AI's "GPT reflect 'readings' of the world that

- Require substantial 'fine-tuning' to match our international development lingo (e.g. 'Social protection')
- Are biased towards the audiences of these searches over the period it has existed, i.e. channel 'Western' perspectives
- May imply undue costs compared to the need

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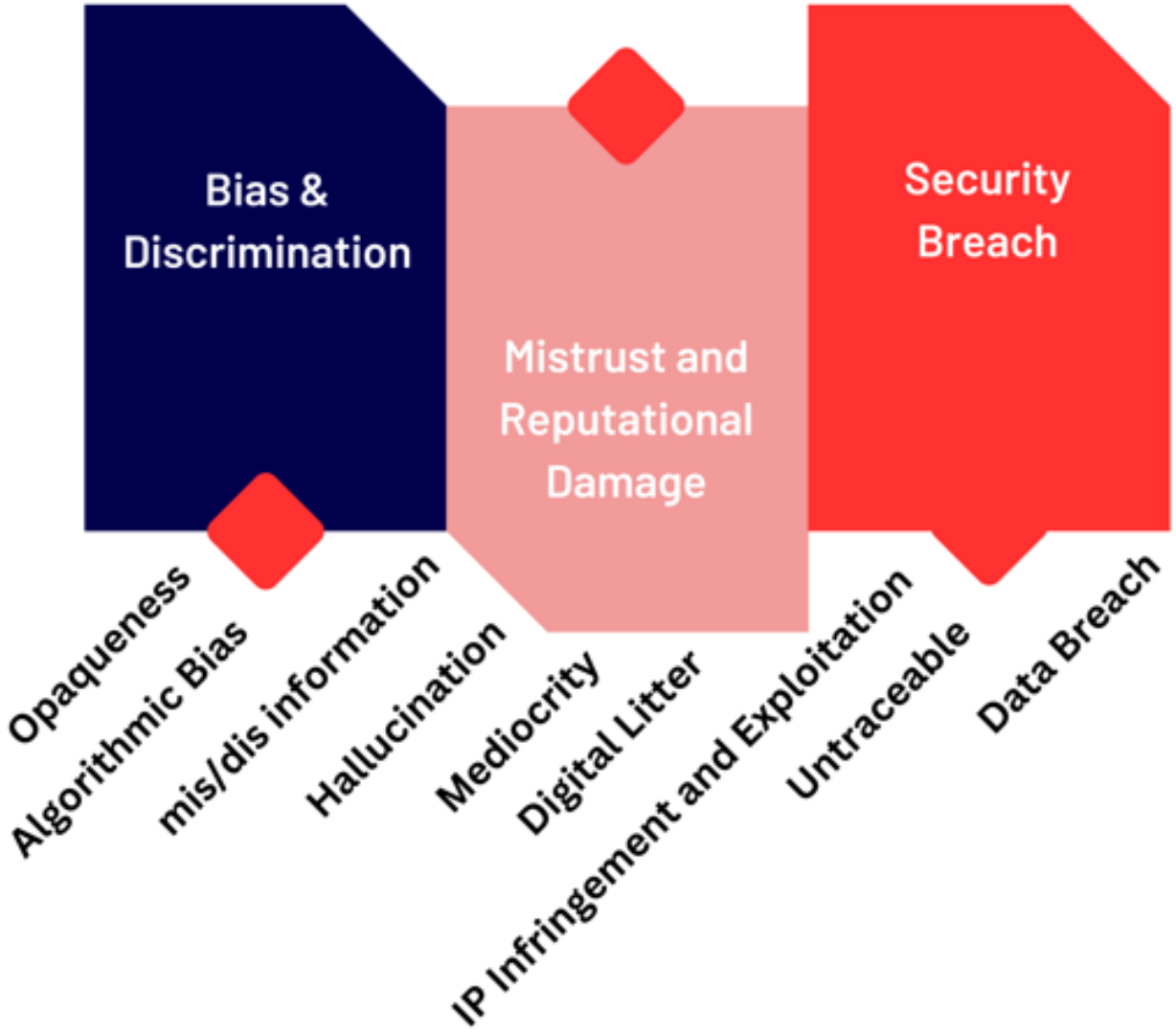
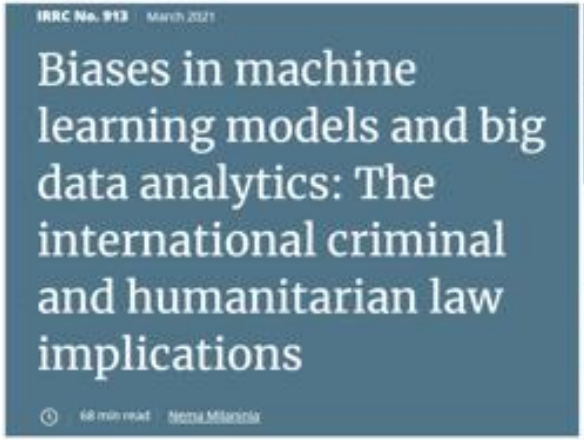
Risks of AI

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