

PREDICTION TASK	DECISIONS	VALUE PROPOSITION	DATA COLLECTION	DATA SOURCES
<p>What is the type of task? Which entity are predictions made on? What are the possible outcomes to predict? When are outcomes observed?</p> <p>Automatically analyze user-uploaded clothing images to: classify clothing type evaluate style similarity assess color harmony generate and rank outfit combinations</p>	<p>How are predictions turned into actionable recommendations or decisions for the end-user? (Mention parameters of the process / application for this.)</p> <p>Model outputs are used to: determine valid outfit combinations rank outfits based on compatibility select top outfits for a 30-day calendar Constraints: minimum wardrobe size (≥ 10 items) avoid repetition color harmony rules</p>	<p>Who is the end beneficiary, and what specific pain points are addressed? How will the ML solution integrate with their workflow, and through which user interfaces?</p> <p>Technical value delivered: eliminates manual tagging enables real-time predictions scalable without retraining integrates directly into web UI</p> <p>Who benefits: end users (personal styling) retailers (future API use)</p>	<p>How is the initial set of entities and outcomes sourced (e.g., database extracts, API pulls, manual labeling)? What strategies are in place to update data continuously while controlling cost and maintaining freshness?</p> <p>Primary data: user-uploaded clothing images Secondary data (development only): DeepFashion dataset Labels: generated using zero-shot learning no manual labeling</p>	<p>Where can we get data on entities and observed outcomes? (Mention internal and external database tables or API methods.)</p> <p>local image uploads pretrained CLIP model text prompts for categories</p>
IMPACT SIMULATION	MAKING PREDICTIONS	BUILDING MODELS	FEATURES	MONITORING
<p>What are the cost/gain values for (in)correct decisions? Which data is used to simulate pre-deployment impact? What are the criteria for deployment? Are there fairness constraints?</p> <p>Correct predictions: high-quality outfits increased wardrobe usage higher user satisfaction</p> <p>Incorrect predictions: poor outfit matches</p> <p>Mitigation: prompt refinement weighted scoring logic</p>	<p>Are predictions made in batch or in real time? How frequently? How much time is available for this (including featurization and decisions)? Which computational resources are used?</p> <p>Mode: real-time Frequency: per image upload & capsule request Latency target: <1s per image <2s per capsule</p>	<p>How many models are needed in production? When should they be updated? How much time is available for this (including featurization and analysis)? Which computation resources are used?</p> <p>Model used: CLIP (ViT-B/32)</p> <p>Training: none (zero-shot inference)</p> <p>Updates: prompt tuning, not retraining</p>	<p>CLIP image embeddings HSV color values color group labels (warm/cool/neutral)</p> <p>Transformations: cosine similarity weighted aggregation</p>	<p>System metrics: inference time classification consistency</p> <p>User signals: capsule acceptance repeat usage</p>

[FREE] ONLINE COURSE

Introduction to the Machine Learning Canvas

Get started with the MLC in this short course taught by its author.

The screenshot shows a grid of six video thumbnails from the course:

- Start Here**: A video thumbnail showing a man with glasses speaking. Duration: 3:31.
- [Video] Overview of the 10 boxes that make up the MLC**: A video thumbnail showing a list of 10 boxes. Duration: 3:31.
- WHY USE MLC?**: A video thumbnail showing reasons to use the MLC. Duration: 2:34.
- [Video] Structure of the MLC**: A video thumbnail showing the structure of the MLC. Duration: 2:49.
- Get your AI-generated canvas**: A video thumbnail showing an AI-generated canvas template. Duration: 2:49.
- Prepare for implementation**: A video thumbnail showing steps for implementation. Duration: 2:49.

Below the thumbnails, there is a large diagram titled "PREDICTIVE ENGINE" showing the flow between "PREDICT", "GOAL", and "LEARN".

Start now at ownml.co/intro