











<div><div>PREDICTION TASK</div><div></div><div><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:</p><p>classify clothing type</p><p>evaluate style similarity</p><p>assess color harmony</p><p>generate and rank outfit combinations</p></div></div>	<div><div>DECISIONS</div><div></div><div><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:</p><p>determine valid outfit combinations</p><p>rank outfits based on compatibility</p><p>select top outfits for a 30-day calendar</p><p>Constraints:</p><p>minimum wardrobe size (<math>\geq 10</math> items)</p><p>avoid repetition</p><p>color harmony rules</p></div></div>	<div><div>VALUE PROPOSITION</div><div></div><div><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:</p><p>eliminates manual tagging</p><p>enables real-time predictions</p><p>scalable without retraining</p><p>integrates directly into web UI</p><p>Who benefits:</p><p>end users (personal styling)</p><p>retailers (future API use)</p></div></div>	<div><div>DATA COLLECTION</div><div></div><div><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:</p><p>user-uploaded clothing images</p><p>Secondary data (development only):</p><p>DeepFashion dataset</p><p>Labels:</p><p>generated using zero-shot learning</p><p>no manual labeling</p></div></div>	<div><div>DATA SOURCES</div><div></div><div><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</p><p>pretrained CLIP model</p><p>text prompts for categories</p></div></div>		
<div><div>IMPACT SIMULATION</div><div></div><div><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:</p><p>high-quality outfits</p><p>increased wardrobe usage</p><p>higher user satisfaction</p><p>Incorrect predictions:</p><p>poor outfit matches</p><p>Mitigation:</p><p>prompt refinement</p><p>weighted scoring logic</p></div></div>	<div><div>MAKING PREDICTIONS</div><div></div><div><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</p><p>Frequency: per image upload &amp; capsule request</p><p>Latency target:</p><p>&lt;1s per image</p><p>&lt;2s per capsule</p></div></div>	<div><div>MONITORING</div><div></div><div><p>Which metrics and KPIs are used to track the ML solution's impact once deployed, both for end-users and for the business? How often should they be reviewed?</p><p>System metrics:</p><p>inference time</p><p>classification consistency</p><p>User signals:</p><p>capsule acceptance</p><p>repeat usage</p></div></div>			<div><div>BUILDING MODELS</div><div></div><div><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:</p><p>CLIP (ViT-B/32)</p><p>Training:</p><p>none (zero-shot inference)</p><p>Updates:</p><p>prompt tuning, not retraining</p></div></div>	<div><div>FEATURES</div><div></div><div><p>What representations are used for entities at prediction time? What aggregations or transformations are applied to raw data sources?</p><p>CLIP image embeddings</p><p>HSV color values</p><p>color group labels (warm/cool/neutral)</p><p>Transformations:</p><p>cosine similarity</p><p>weighted aggregation</p></div></div>

[FREE] ONLINE COURSE

# Introduction to the Machine Learning Canvas

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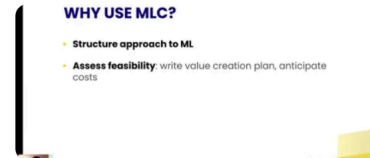


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[Video] Overview of the 10 boxes that make up the MLC

3:31



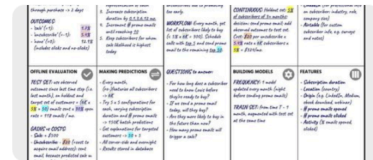
[Video] Why use the MLC?

2:34



[Video] Structure of the MLC

2:49



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