








<p><b>PREDICTION TASK</b> </p> <p>Type of task? Entity on which predictions are made? Possible outcomes? Wait time before observation?</p>	<p><b>DECISIONS</b> </p> <p>How are predictions turned into proposed value for the end-user? Mention parameters of the process / application that does that.</p>	<p><b>VALUE PROPOSITION</b> </p> <p>Who is the end-user? What are their objectives? How will they benefit from the ML system? Mention workflow/interfaces.</p>	<p><b>DATA COLLECTION</b> </p> <p>Strategy for initial train set &amp; continuous update. Mention collection rate, holdout on production entities, cost/constraints to observe outcomes.</p>	<p><b>DATA SOURCES</b> </p> <p>Where can we get (raw) information on entities and observed outcomes? Mention database tables, API methods, websites to scrape, etc.</p>
<p><b>IMPACT SIMULATION</b> </p> <p>Can models be deployed? Which test data to assess performance? Cost/gain values for (in)correct decisions? <u>Fairness constraint</u>?</p>	<p><b>MAKING PREDICTIONS</b> </p> <p>When do we make real-time / batch pred.? Time available for this + featurization + post-processing? Compute target?</p>		<p><b>BUILDING MODELS</b> </p> <p>How many prod models are needed? When would we update? Time available for this (including featurization and analysis)?</p>	<p><b>FEATURES</b> </p> <p>Input representations available at prediction time, extracted from raw data sources.</p>
<p><b>MONITORING</b> </p> <p>Metrics to quantify value creation and measure the ML system's impact in production (on end-users and business)?</p>				

## Ready for the next step? Check out the ML Project Checklist!

Lead ML implementation with confidence with the CRISP—OWNML methodology (*Cross-Industry Standard Process to create your own Machine Learning system*) and its checklist. End-to-end ML projects are broken down into **9 phases of 4-5 tasks each**.

The checklist serves as a roadmap, listing in detail what you need to do, and in which order, so you can minimize risks and **make the most efficient use of your (and your team's) time**.

Learn more at [ownml.co/checklist](https://ownml.co/checklist)

**CRISP—OWNML (0.1-beta)**

TASKS	NOTES
<input type="checkbox"/> Pick use case, based on potential impact & feasibility	
<input type="checkbox"/> Fill in Machine Learning Canvas	
<input type="checkbox"/> Conduct end-user study & create app mockup	
<input type="checkbox"/> Choose tech stack	
<input type="checkbox"/> Collect initial set of training inputs and outputs	
<input type="checkbox"/> Implement basic featurizer	
<input type="checkbox"/> Explore and fix featurized train set	
<input type="checkbox"/> Implement prediction heuristic	
<input type="checkbox"/> Implement decisions from predictions	
<input type="checkbox"/> 'A' team: Collect test data & share inputs with 'B' team	
<input type="checkbox"/> Implement evaluator & deployment criterion	
<input type="checkbox"/> Evaluate prediction heuristic + decisions	

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