

Details:

- Team-size: 2 people per-team

Day	Content	Deliverables	Time	Activity Format
0	Program Orientation (Program Outline and Objectives)	-		
	Project Briefing <ul style="list-style-type: none"> <li>- <a href="#">CV Ballot Paper</a></li> <li>- <a href="#">Multi-class Emotion Detection</a> <ul style="list-style-type: none"> <li>- <a href="#">ISEAR.CSV</a></li> </ul> </li> <li>- <a href="#">Car Ads</a></li> </ul>	Choice of project		
1.	<a href="#">Requirement Gathering Session</a>	Report:- doc/Requirements.md	Day 1	Flipped
	Git, Github <ul style="list-style-type: none"> <li>- Feature branch workflow</li> <li>- <a href="#">Git and Jira Integration</a></li> <li>- Eg: <a href="#">Project Structure</a></li> <li>-</li> </ul> Environment Reproducibility: venv, pip Project Structure	Repo with Skeletal Structure and environment <ul style="list-style-type: none"> <li>- Readme.md</li> </ul>	Day 1	Flipped
2.	<a href="#">“Agile For ML projects”</a> : User stories, Scrum, Kanban, Timelines	doc/analysis.md	Day2	Presentation
	<a href="#">Project Analysis:</a> <ul style="list-style-type: none"> <li>- Problem and solution Formulation</li> <li>- Performance Metrics</li> <li>- Baseline model choice</li> <li>- Milestones and timeline</li> </ul>	doc/analysis.md	Day2	Flipped
3.	Numpy, Pandas, Matplotlib Car ads <a href="#">(EDA Doc)</a> <ul style="list-style-type: none"> <li>- Data Visualisation</li> <li>- Data handling, Data Cleaning</li> <li>- Feature engineering</li> </ul>	notebook/*.ipynb	Day 4	Flipped (feedback)
4.	Modeling <ul style="list-style-type: none"> <li>- Algorithm Choice</li> <li>- Evaluation Setup</li> <li>- Experiment Tracking               <ul style="list-style-type: none"> <li>- Neptune.ai/ML flow+</li> </ul> </li> <li>- Pipeline</li> <li>- Model Reproducibility</li> </ul>	model/* model/*	Day 6 (Baseline); Day 8	Flipped

	Python Code-Quality and Standardisation <ul style="list-style-type: none"> <li>- Style-guide,</li> <li>- Documentation</li> <li>- Linter</li> </ul>			
	References: <a href="#">Organizing machine learning projects: project management guidelines</a> and resources listed at the bottom there. <a href="#">A Recipe for Training Neural Networks</a> by Karpathy Machine Learning Yearning: <a href="#">Official Link</a>   <a href="#">Pdf link</a> (say no to piracy) Structuring Machine Learning Projects: <a href="#">Coursera</a>   <a href="#">Youtube channel</a>			
5	Remote server access/training: <ul style="list-style-type: none"> <li>- Training             <ul style="list-style-type: none"> <li>- AWS : EC2, AMI, S3, EBS</li> <li>- General: SSH, tunneling, Tmux, Logs</li> </ul> </li> <li>- Server: &lt;optional&gt;</li> </ul>	Local server / cloud academy / <a href="#">qwiklabs</a> / pluralsight	-	
6	+ Progress Reporting	Google suite presentation slides Numbers in sheets Rest docs	Day 6	
7	Web Framework (Flask) Overview REST Pymongo	api/*.py	Day 7	flipped
	Reproducibility and Deployment <ul style="list-style-type: none"> <li>- Reproducibility when required</li> <li>- Deployment - Docker</li> <li>- Instructions</li> </ul>	Requirements.txt / environment.yml / Dockerfile README.md	Day 7	
8.	Reporting		Day 8	
9.	BREAK	BREAK		
10.	Second project Reporting	Primary - Notebooks in github Secondary - Rest of the above	Day 10	