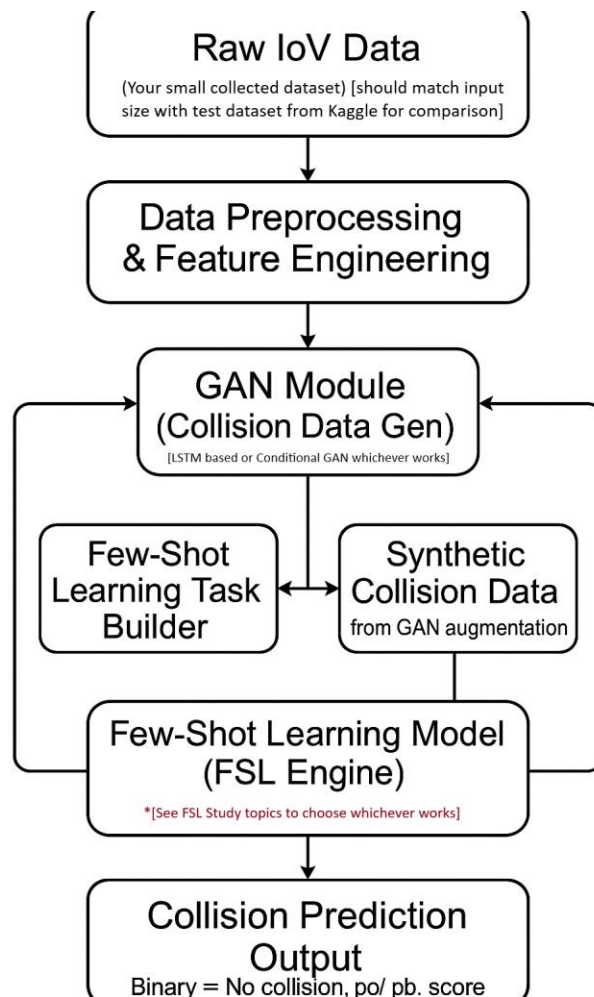


A Few-Shot Adversarial Learning Framework for Collision Prediction in IoV Systems

Sample Workflow:



*Study topics on FSL (Few shot learning)

- a. **Similarity Metric-Based Approaches** (*Recommended for your task)
 - i. Siamese Networks
 - ii. Prototypical Networks
 - iii. Relation Networks
 - iv. Matching Networks
- b. Optimization-Based Approaches
 - i. Train models that can quickly adapt to new tasks.
 - ii. MAML (Model-Agnostic Meta-Learning)
 - iii. Reptile
 - iv. First-Order MAML (FOMAML)
- c. Model-Based Approaches
 - i. Incorporate memory or attention to store information about few-shot tasks.
 - ii. Memory-Augmented Neural Networks (MANN)
 - iii. Neural Turing Machines
 - iv. Meta Networks