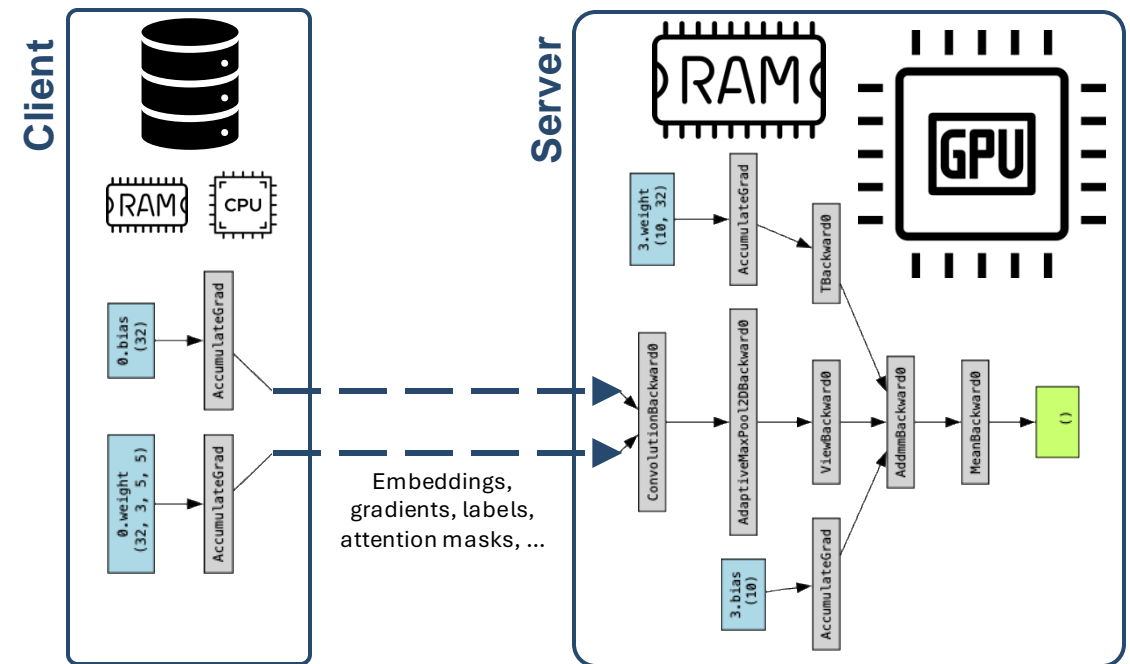


Towards a Unified Framework for Split Learning

- Training large models on resource-constrained devices (as in Federated Learning) is impractical
- Split Learning:
 - Partitions computational graph
 - Reduces memory & compute footprint
- Implementing SL algorithms is complex
 - Constant client-server communication
 - Clients sending requests in parallel
 - Dynamic workloads
 - Server trains multiple models in parallel



Implementing SL used to mean building the whole software stack from scratch

SplitBud

- First **flexible & general-purpose SL framework**
- Implement **any SL algorithm** with minimal overhead
 - User overrides Python classes
 - Framework handles infrastructure
- In the paper, we also discuss:
 - SL benefits
 - Research directions
 - Open challenges
 - *Are FL and SL really that different?*

