

SPECIALIST SKILL / SATELLITE & PAYLOAD AI

Use onboard compute to prioritize the downlink.

Design inference on the payload around mission data, hardware budgets and update constraints. Test whether onboard processing can turn scarce communications capacity toward the data that matters.

WHAT WE CAN BUILD FOR YOU

Onboard image selection

Evaluate a model that ranks or filters candidate imagery before transmission, then benchmark it on payload compute.

Value: Ground teams can assess the trade-off between retained information and downlink demand.

A mission-aware model update path

Package model changes with validation and a defined update procedure for the payload environment.

Value: The mission has a reviewed way to evolve processing instead of relying on an unplanned software change.

WHAT THE ENGAGEMENT INCLUDES

- | Onboard inference design
- | Payload compute selection
- | Model update path
- | Validation against mission data

WHAT YOU TAKE AWAY

- | Onboard processing software
- | Validation results
- | Update procedure

HOW WE MAKE THE VALUE VISIBLE

Useful data retained / Downlink volume / Power and inference latency

Export-controlled scope is reviewed before work. No clearance or export-authorization claim is made.

ILLUSTRATIVE APPLICATIONS / SCOPED TO YOUR SYSTEMS

Let's scope the first useful step.

Bring representative mission data, payload compute options and the downlink and power budgets.

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