

Experience Center

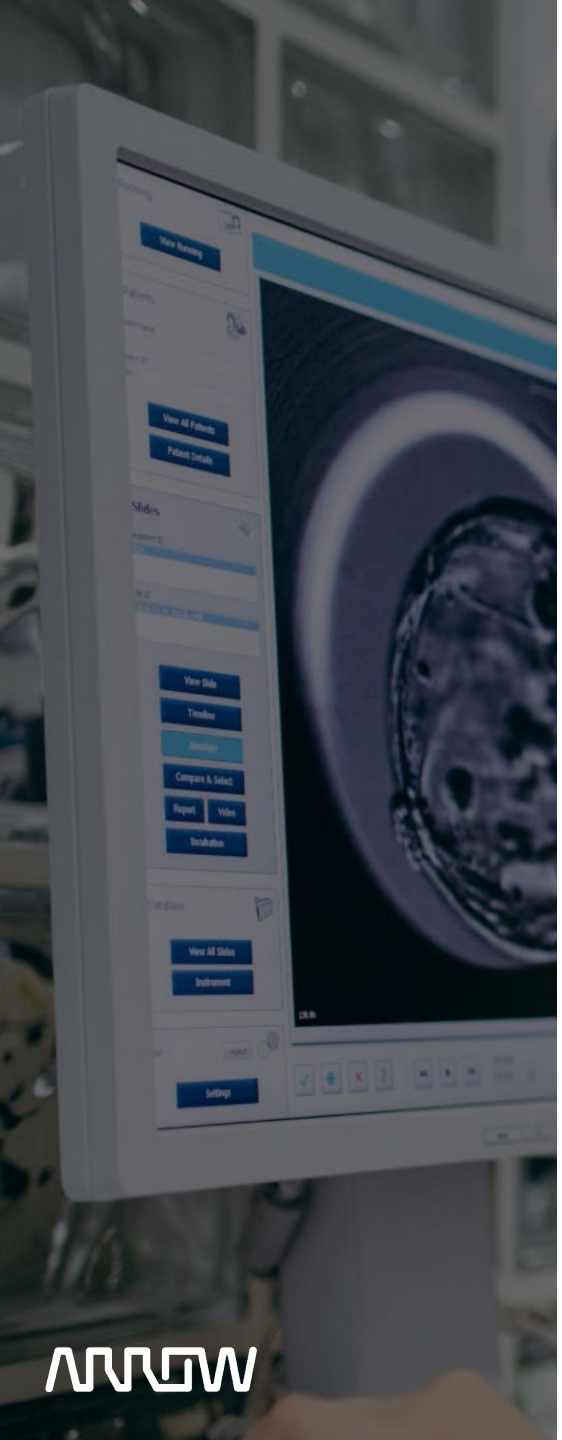
NVIDIA Solutions Demo Menu

NVIDIA Solution	Healthcare / Life Sciences	Media & Entertainment	AECO	Financial Services	Retail / CPG	Automotive / Transportation	Public Sector (US & Global)	Robotics / Physical AI
NVIDIA Agentic AI Workflow – NIM/ Reasonining	Healtchcare Patient Onboarding. FHIR Fast Health Interoperability Resource	Automate HR Onboarding: Document Intake, Validate and More	Vendor Supply Invoice Invoke Ingestion and ERP Reconciliation	Analyze Spending Patterns; Financial Advice; Loan Pre-approvals	Cyber Secuirty AI SIEM Reasoning & Response	Automated Inventory Mgmt Predictive Analytics	Government Vendor Payment Automation	
AI Workbench	AI, Generative AI Software Dev	AI, Generative AI Software Dev	AI, Generative AI Software Dev	AI, Generative AI Software Dev	AI, Generative AI Software Dev	AI, Generative AI Software Dev	AI, Generative AI Software Dev	
Rapids	Predictive Modeling	Data Analytics, Recommenders, Personalization		Fraud/Threat Detection & Risk Management	Inventory Management Optimization	Autonomous Vehicle CICD - Data Proc Optimization		
/AI Agents)	GenAI/ChatBot – RAG focused on vertical	GenAI/ChatBot – RAG focused on vertical	GenAI/ChatBot – RAG focused on vertical	GenAI/ChatBot – RAG focused on vertical	GenAI/ChatBot – RAG focused on vertical	GenAI/ChatBot – RAG focused on vertical	GenAI/ChatBot – RAG focused on vertical	
Omniverse Enterprise	Medical Visualization (AR/VR)	Real-time collaborative design and 3D content creation	Virtual Facility Digital Twins & Simulation		Loss Prevention to Avoid Theft	Virtual Factory; Real-time collab between CAD and simulation teams	3D city planning, visualization, and infrastructure collaboration	Robot Learning and Validation in Simulation
Nemo Curator	Curating clinical text and medical literature for RAG				Product catalog cleanup and enrichment for RAG search			
Parabricks	Genomic analysis;; population-scale sequencing/personalized medicine							

Legend:
Green circle = **Ready to demo**
Yellow circle = Will be ready to demo soon - *stay tuned for updates*
Red square = Will be available to demo later this year
NOTE: *The above roadmap is subject to change, depending on demo demand*

Request Demo


Healthcare /
Life Sciences



Healthcare / Life Sciences

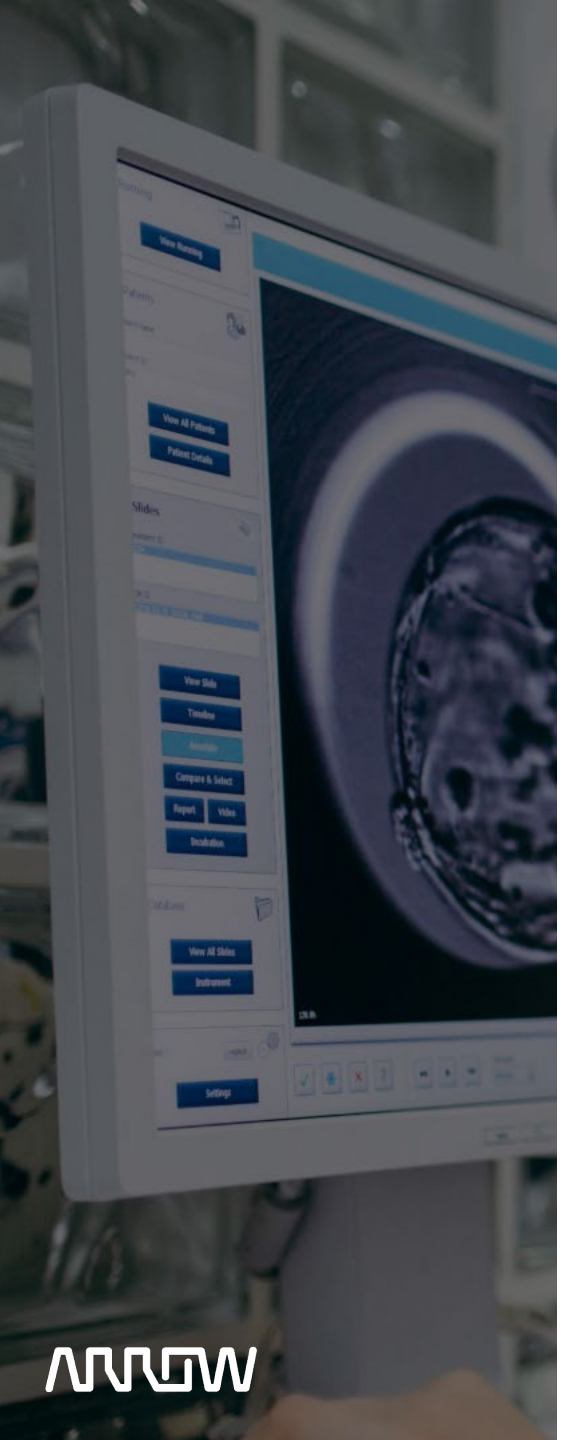
NVIDIA AI Workbench

Use Case: Prototyping LLM and RAG Pipelines for Medical Applications
Benefit: Use GitHub-hosted AI Workbench projects to explore fine-tuning LLMs for medical literature summarization, question answering, and internal knowledge retrieval. AI Workbench supports secure, containerized development to evaluate clinical and research-focused workflows.

- Test retrieval pipelines for research databases and SOPs
- Fine-tune open models on domain-specific datasets (e.g., PubMed, trials)
- Enable internal review teams to collaborate using versioned notebooks

Workloads:

- RAG for Clinical Guidelines and Documentation
- LLM Fine-Tuning for Medical QA Systems
- Summarization of Research Articles or EMR Notes
- RAPIDS for Genomic or Patient Data Preprocessing
- Assistant Prototyping for Medical Helpdesk or Education



Healthcare / Life Sciences

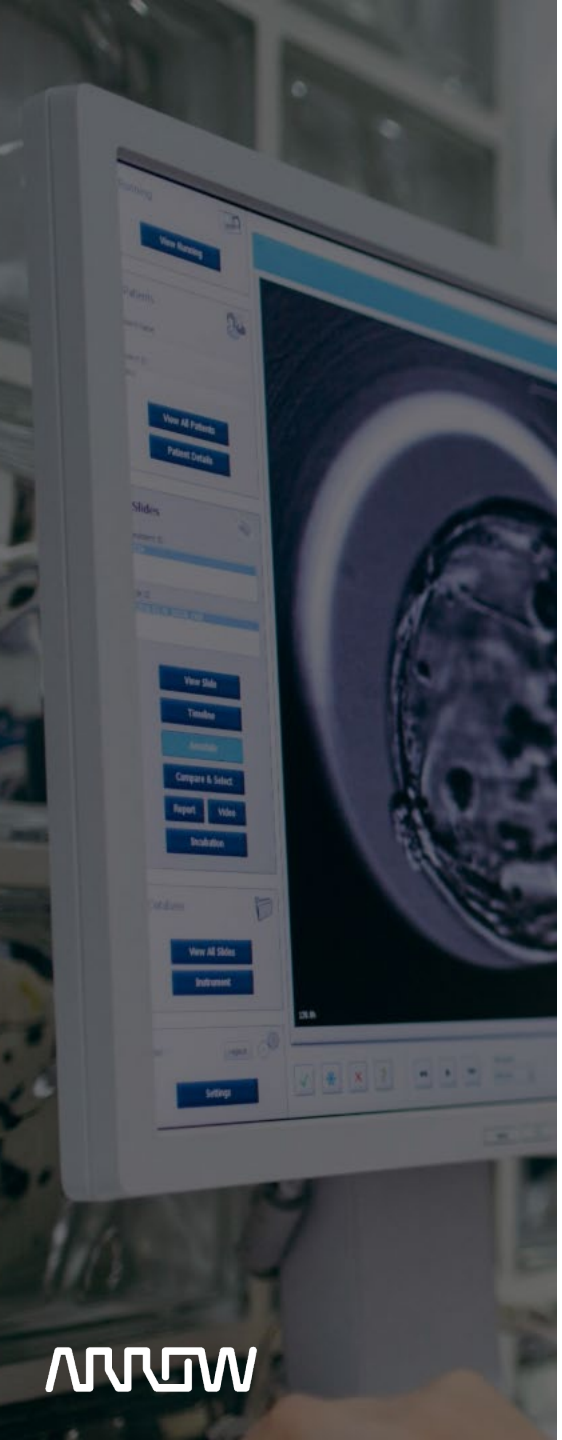
NVIDIA Agentic AI Workflows NIM/Reasoning

Use Case: Healthcare Patient Onboarding.

Benefits: NVIDIA Agentic AI for Healthcare streamlines patient onboarding by combining AI reasoning, OCR, and FHIR interoperability into a single intelligent workflow. Using **NVIDIA NIM microservices for reasoning and OCR**, this solution extracts and validates patient information from forms, IDs, and medical history documents—automating what was once manual data entry.
With **MCP** for multi-agent orchestration, tasks are intelligently routed between reasoning agents, OCR, and validation modules—enabling real-time data extraction, compliance checking, and patient record creation within FHIR-compliant systems.

Workloads:

Reasoning & OCR with NIMs: Applies NVIDIA NIM microservices for contextual reasoning and high-accuracy OCR to extract data from ID cards, insurance forms, and intake documents, populating structured FHIR patient resources.
MCP-Driven Agentic AI: Coordinates reasoning, OCR, and validation agents using the **Multi Control Protocol (MCP)** to ensure seamless data flow and human-in-the-loop (HITL) oversight when exceptions or ambiguities occur.
Seamless ERP Integration: Connects directly into enterprise ERP platforms, streamlining data flow and reducing costly manual entry.
Intelligent Validation & Compliance:Reasoning agents cross-check patient data for accuracy, duplicate detection, and regulatory alignment (HIPAA / FHIR compliance) before submission.
Accelerated Deployment: Pre-built NIMs replace the need for custom GPU model builds, delivering faster time-to-value and simplified adoption.
FHIR Record Generation: Transforms validated data into FHIR-compliant JSON objects, automatically creating or updating **Patient**, **Coverage**, and **Encounter** resources in downstream systems.



Healthcare / Life Sciences

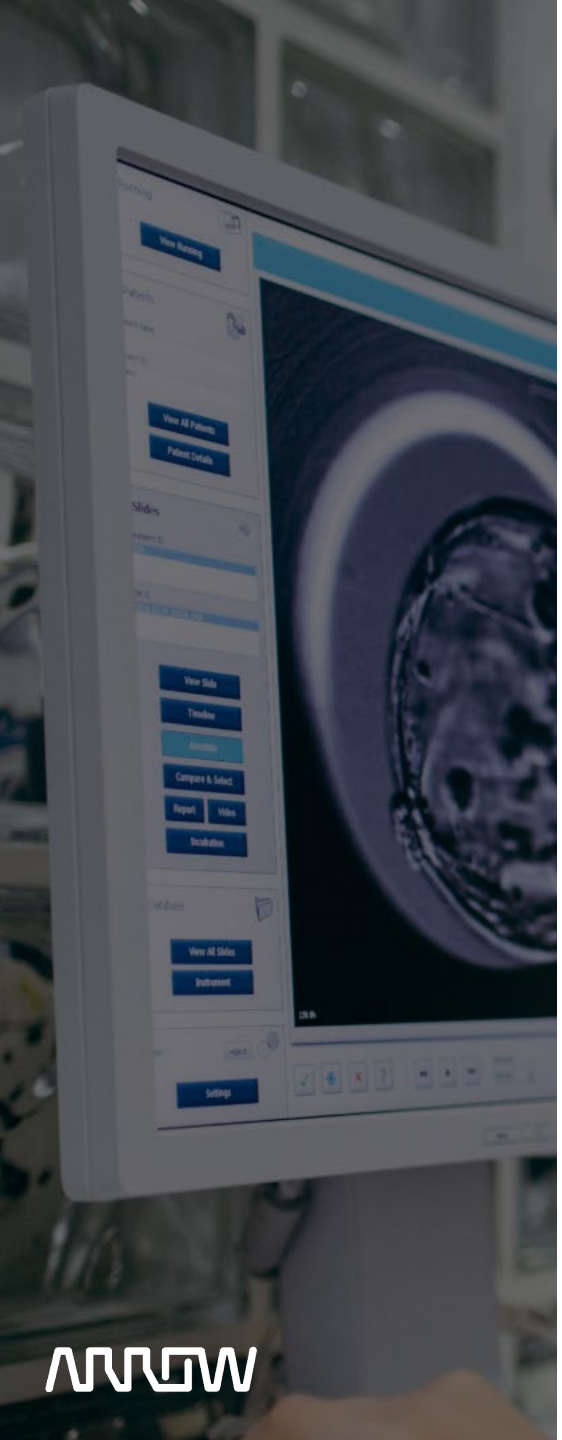
RAPIDS

Use Case: Risk Stratification and Predictive Modeling
Benefit: Accelerate population-level analysis for real-world evidence studies. Use RAPIDS to identify high-risk patient groups based on age, demographics, and comorbidities—enabling earlier intervention and optimized resource allocation.

- Stratify patient populations by health risk
- Build age-based outcome prediction models
- Speed up real-world evidence pipelines for clinical decision support

Workloads:

- Risk Modeling by Demographics
- Predictive Health Analytics
- Real-World Evidence Analysis
- Population-Level Data Processing
- Accelerated EMR/EHR Analytics



Healthcare / Life Sciences

Digital Human (RAG/AI Agents)

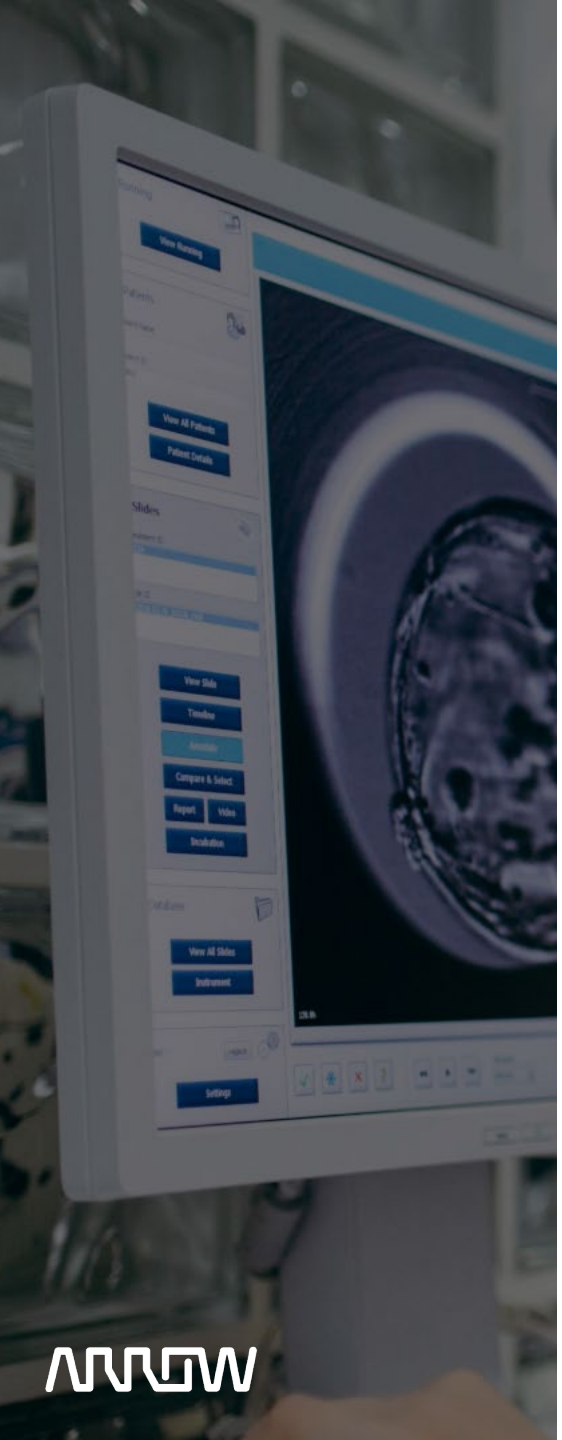
Use Case: Customer Service Agent

Benefit: Augment human workers

- Patient interactions (pre- and post- visit)
- Physician office
- Insurance interactions

Workloads:

- Generative AI
- Genenerative AI and AI Model
- Training
- Speech
- Avatar
- Guardrails



Healthcare / Life Sciences

Omniverse Enterprise

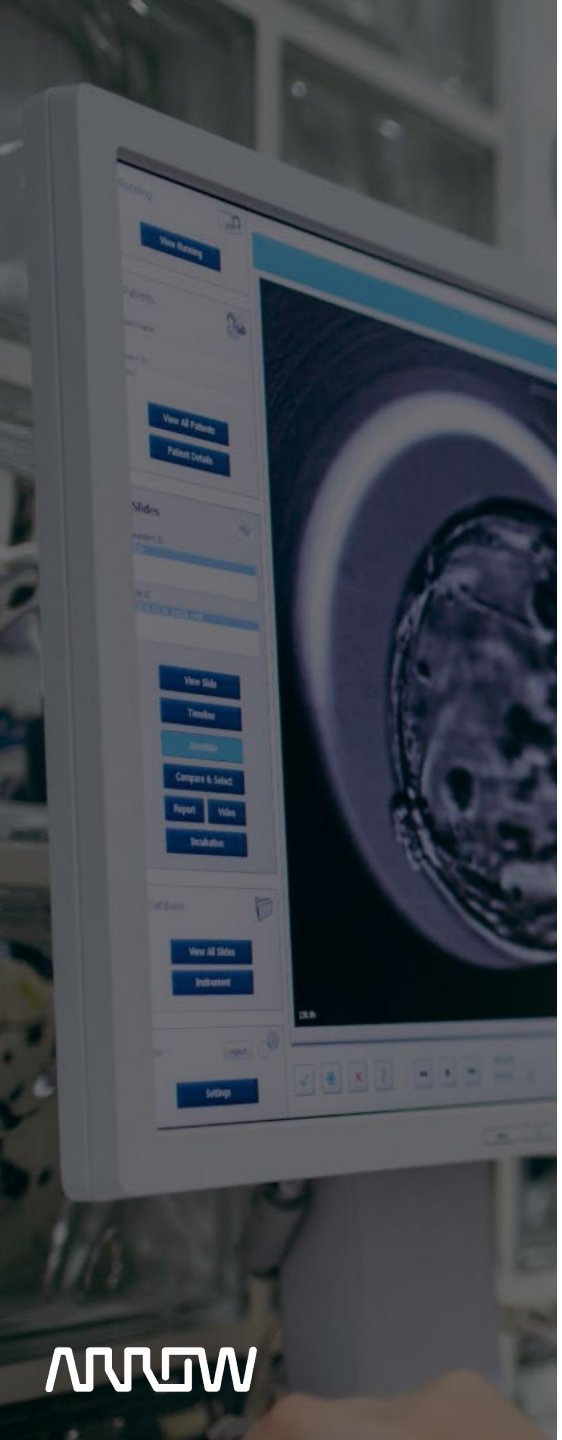
Use Case: Medical Visualization (AR/VR)

Benefit: Medical Visualization (AR/VR) for Digital Surgery Assist and Smart Hospitals

- Digital Twin of OR
- Simulation of surgeries (University Hospital Bonn, Atlas Meditech)
- Digital Twin of Hospital
- AR Surgery Assist

Workloads:

- AR / VR
- Data Aggregation
- Physics-ML
- Rendering / Ray Tracing
- Simulation / Modeling
- USD Data Pipeline
- Video Streaming, Virtualization



Healthcare / Life Sciences

Nemo Curator

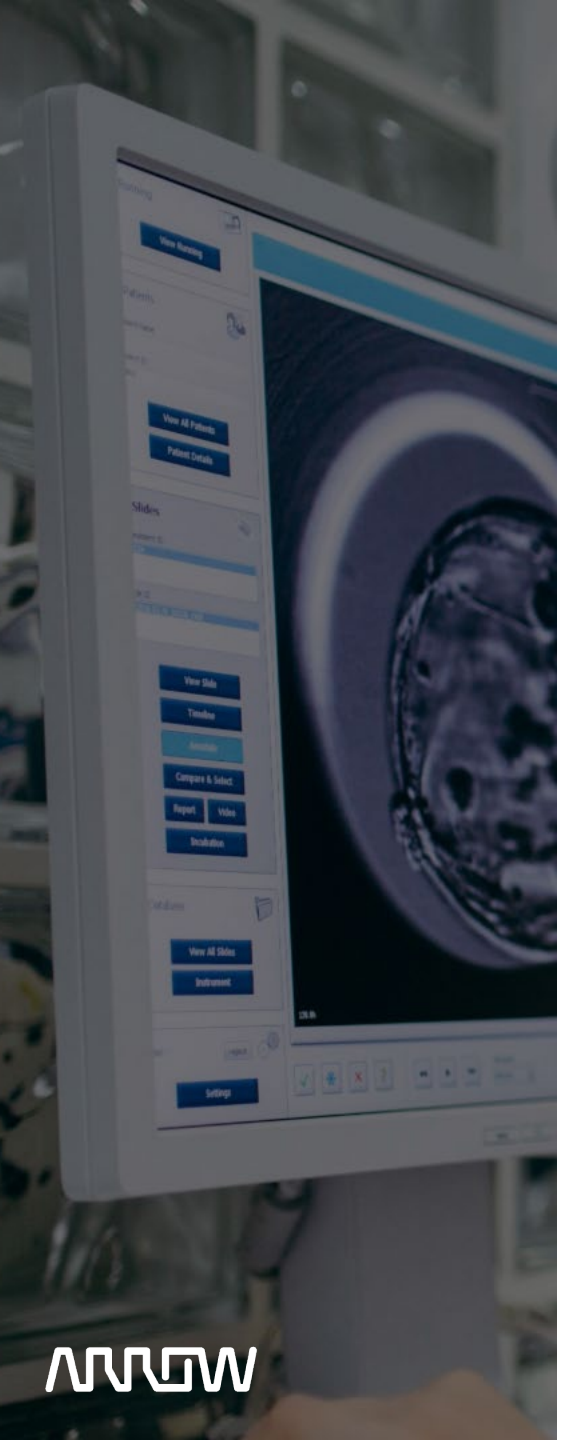
Use Case:

Benefit:

Potential Applications:

Workloads:

INFO COMING SOON



Healthcare / Life Sciences

Parabricks

Use Case: Genomic Secondary Analysis

Benefit: Alignment and Variant Calling for short-read and long-read sequencing

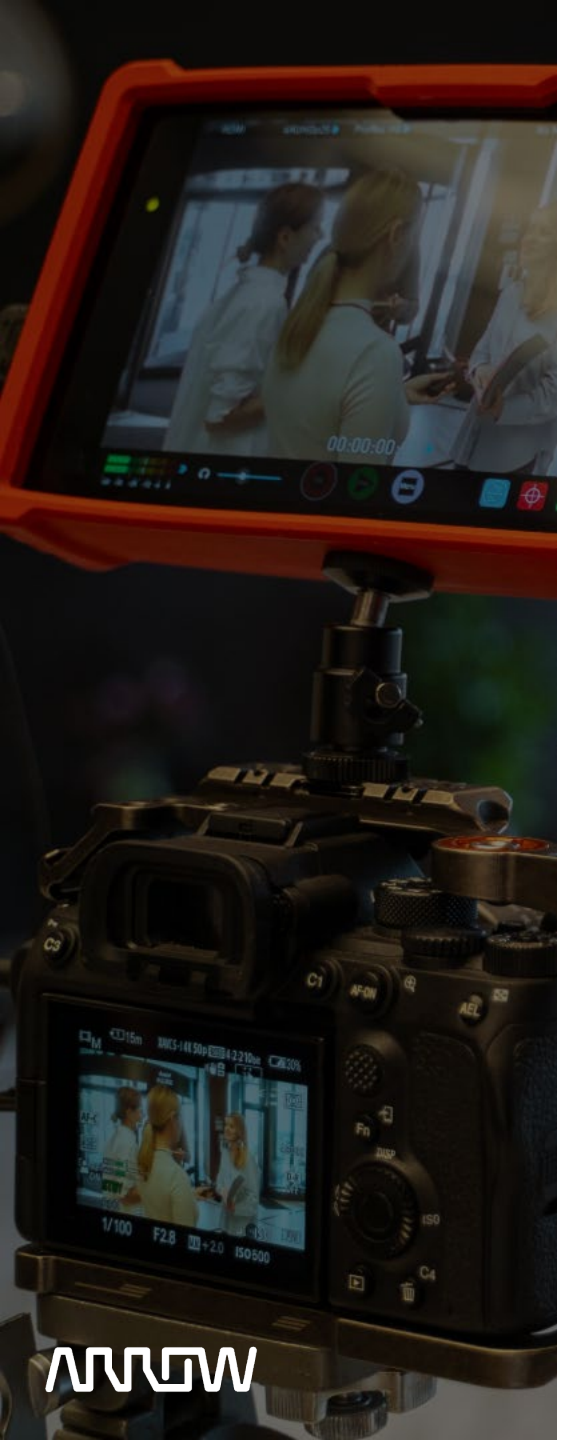
- Increase Throughput
- Decrease turn-around time (Francis Crick)
- Reduce cost per sample (Sanger Institute)
- Improve accuracy with AI

Workloads:

- Alignment
- Data Analytics/Processing
- Variant Calling



Media and Entertainment



Media and Entertainment

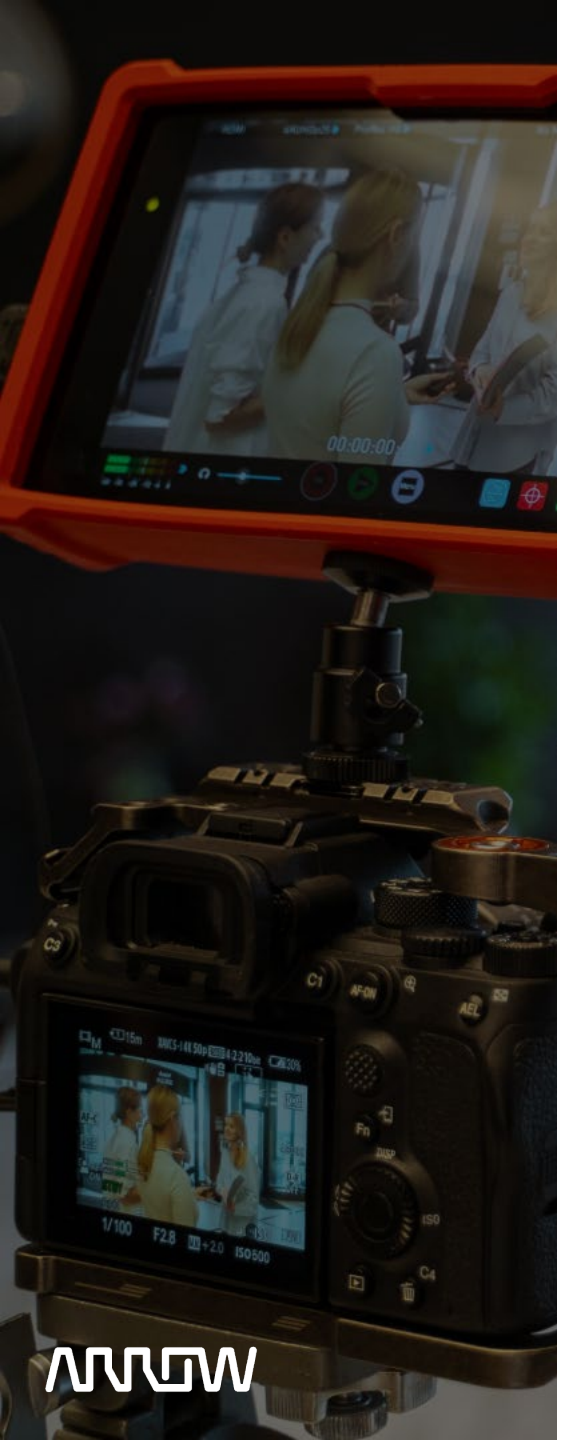
NVIDIA AI Workbench

Use Case: Generative Content Prototyping with Fine-Tuned and Custom Models
Benefit: AI Workbench supports experimentation with text-to-image customization (e.g., SDXL), fine-tuned LLMs for script generation, and lightweight multimodal assistant demos. Ideal for early-stage use in media, branding, and interactive storytelling.

- Use SDXL customization repos for brand-aligned visuals
- Test LLM fine-tuning for IP-based storytelling or script augmentation
- Create lightweight pipelines for character assistants or content

Workloads:

- Script Drafting with Fine-Tuned LLMs
- SDXL Visual Customization for Campaigns
- RAG for IP Lore and Story Reference
- Multimodal Assistant Prototyping
- Content Summarization / QA Tools



Media and Entertainment

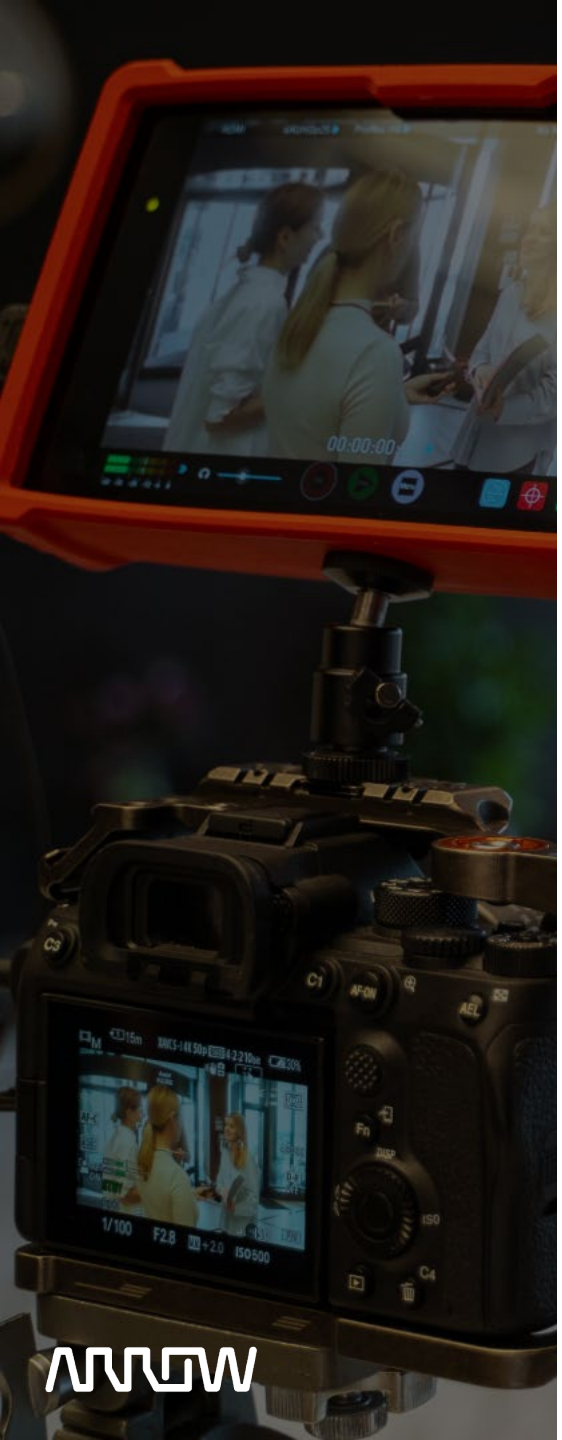
NVIDIA Agentic AI Workflows NIM/Reasoning

Use Case: NVIDIA Agentic AI for Documents

Benefits: NVIDIA Agentic AI for Documents is an advanced AI-driven solution designed to automate and optimize document processing workflows within invoicing, ERP systems, and broader business automation. By leveraging **NVIDIA NIM microservices for reasoning and OCR**—along with MCP for agent orchestration—this solution enables intelligent extraction, validation, and decision-making on complex business documents.

Workloads:

Reasoning & OCR with NIMs: Uses NVIDIA NIM microservices for both deep reasoning and high-accuracy OCR, enabling contextual understanding of invoices, purchase orders, and other financial documents.
AI-Powered Data Extraction: Automatically identifies and extracts critical data fields with minimal manual intervention.
MCP-Driven Agentic AI: Employs the Multi Control Protocol (MCP) to coordinate reasoning, routing, and human-in-the-loop (HITL) oversight, ensuring tasks are handled by the right agent at the right time.
Seamless ERP Integration: Connects directly into enterprise ERP platforms, streamlining data flow and reducing costly manual entry.
Intelligent Validation & Compliance: Built-in reasoning agents validate data integrity, flag anomalies, and ensure regulatory compliance across workflows.
Accelerated Deployment: Pre-built NIMs replace the need for custom GPU model builds, delivering faster time-to-value and simplified adoption.



Media and Entertainment

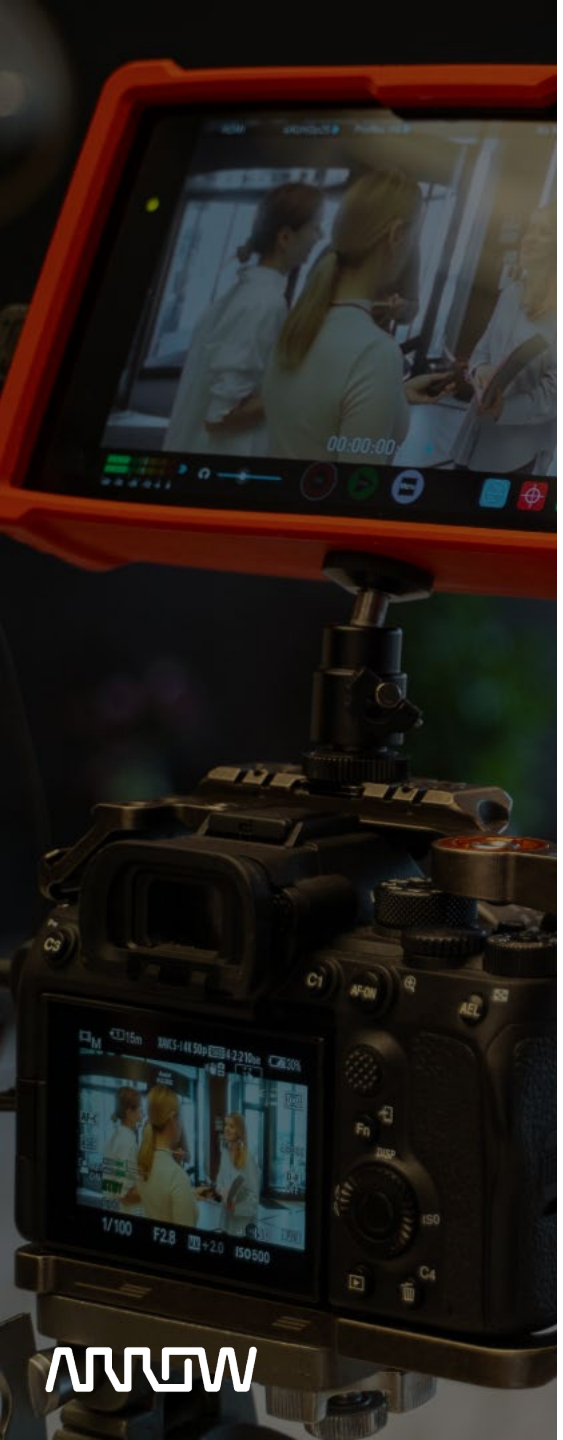
RAPIDS

Use Case: Viewer Analytics, Churn Prediction & Personalization
Benefit: Speed up content analytics pipelines with GPU acceleration. Quickly identify churn risk, personalize content offerings, and optimize engagement strategies across platforms.

- Accelerated viewer behavior modeling
- Real-time segmentation and targeting
- Reduced time-to-insight for marketing and production teams

Workloads:

- Audience Segmentation
- Churn Modeling
- Recommender System Acceleration
- Personalization Algorithms
- Real-Time Streaming Analytics



Media and Entertainment

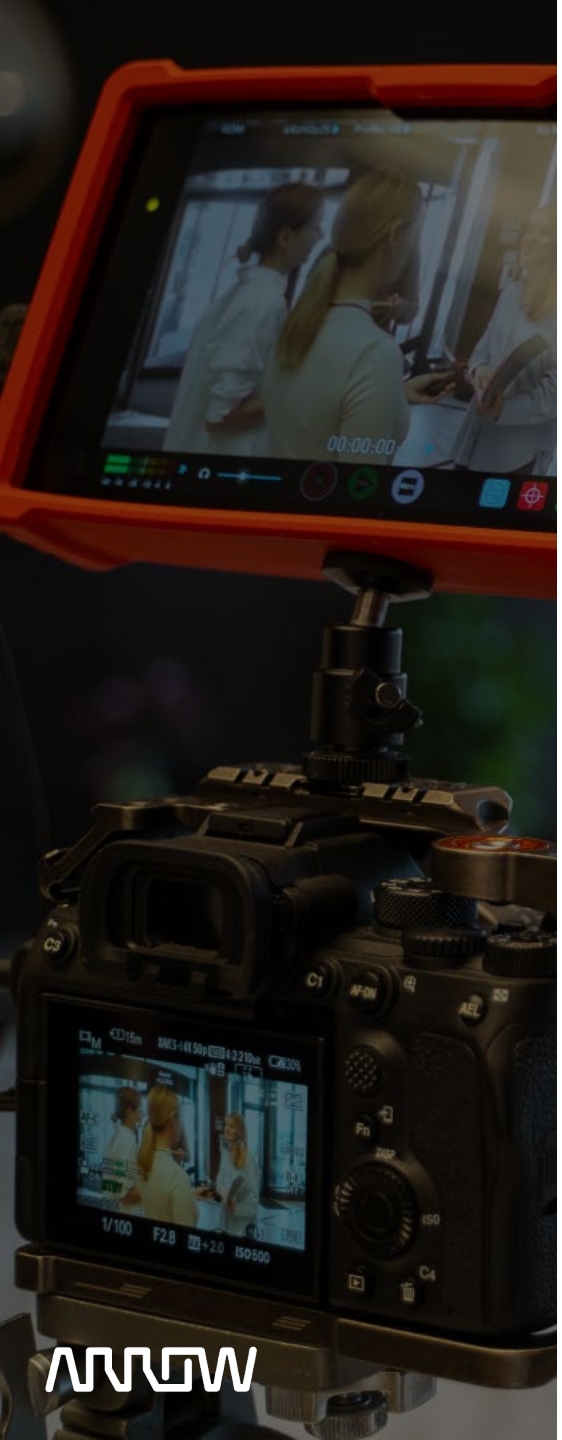
Digital Human (RAG/AI Agents)

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Workloads:

- Script Drafting with Fine-Tuned LLMs
- SDXL Visual Customization for Campaigns
- RAG for IP Lore and Story Reference
- Multimodal Assistant Prototyping
- Content Summarization / QA Tools



Media and Entertainment

Omniverse Enterprise

Use Case: Applications and Services for 3D Content Supply Chain, Consumer Interaction and Production Automation

Benefit: Evolve content production at scale, bring 3D & AI to interactive consumer engagements (GenAI for M&E, WPP, Media. Monks, Disney Media & Entertainment, Distribution, Denza, Brett Danton, Katana, more demos GDN)

- Scaled production
- Data driven personalization

Workloads:

- Consumer Interactive Avatars
- Generative AI:
- OpenUSD Pipeline
- Personalization
- Product Configurators


AECO



AECO

NVIDIA AI Workbench

Use Case: AI Workflow Prototyping for Engineering and Urban Development

Benefit: Use AI Workbench to test RAG pipelines for construction specs and building codes, generate summaries of complex project documentation, and accelerate data analytics with RAPIDS. Ideal for proof-of-concepts across engineering, planning, and operations teams.

- Use LLMs for design document understanding
- Summarize or query safety manuals, zoning laws, or BIM-related specs
- Enable version-controlled experiments on AI workflows before scale-up

Workloads:

- RAG for Project Specifications or Building Code Search
- LLM Fine-Tuning for Design Language Understanding
- RAPIDS for Environmental and Infrastructure Data
- SDXL Customization for Conceptual Design Mockups
- Assistant Prototypes for Architecture/Planning Queries



AECO

NVIDIA Agentic Workflows NIM/Reasoning

Use Case: NVIDIA Agentic AI for Documents

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Accelerated Deployment: Pre-built NIMs replace the need for custom GPU model builds, delivering faster time-to-value and simplified adoption.



AECO

Digital Human (RAG/AI Agents)

Use Case: AI, Generative AI Software Development

Benefit: Accelerated development workflow, scalable full stack solution on prem and cloud:

- AI development, training, inference, and deployment tools

Workloads:

- Construction Management
- Design Optimization
- Operations
- Predictive Analytics



AECO

Omniverse Enterprise

Use Case: Virtual Facility Digital Twins

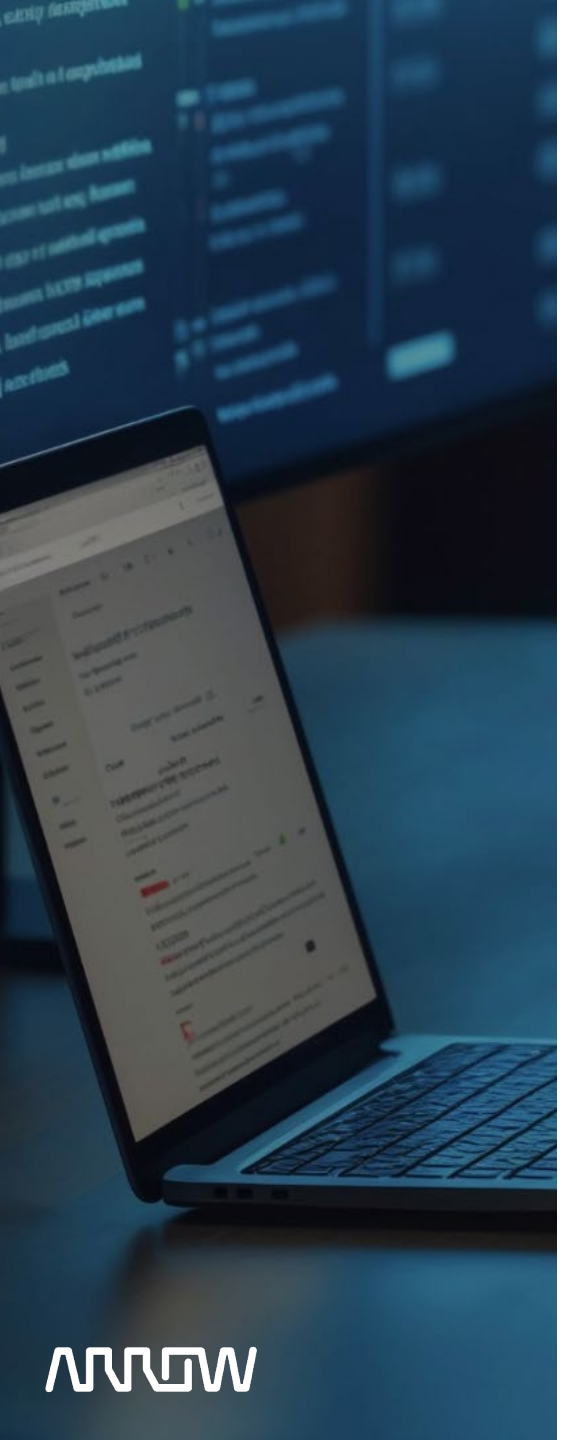
Benefit: Develop USD-based tools, applications, and data pipelines to support robust data collaboration across dispersed teams using multiple design applications, real-time photorealism, and simulation (UrsaLeo, Houseal Lavigne, OutdoorLiving3D, Woods Bagot, SiBORG Lab):

- OpenUSD data pipeline
- Real-time raytracing and PhysX simulation
- Robust customization tools

Workloads:

- City Simulation
- City Operations
- City Visualization
- Digital Twins
- IoT
- Smart Cities


Financial Services



Financal Services

NVIDIA AI Workbench

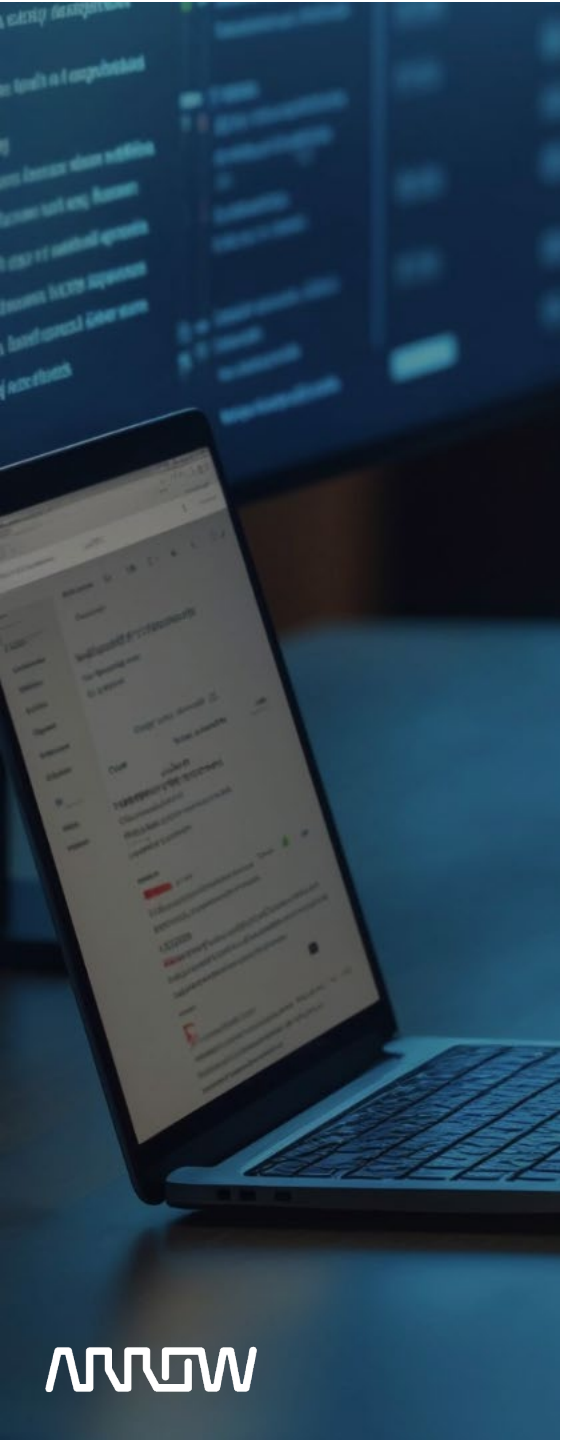
Use Case: Prototyping AI Solutions for Financial Service Teams

Benefit: Use AI Workbench to explore fine-tuning open-source LLMs, test RAG pipelines for financial document search, and analyze large datasets with RAPIDS. Enables internal data science teams to quickly stand up proofs-of-concept in reproducible, containerized environments.

- Launch secure, local LLM experiments before production deployment
- Run RAPIDS-based notebooks for real-time financial analytics
- Use Git to manage collaborative workflows in regulated environments

Workloads:

- RAG for Research & Compliance Document Search
- LLM Fine-Tuning for Risk/Fraud Modeling
- RAPIDS for Portfolio or Transactional Data Processing
- AI Assistant Prototyping for Customer Service
- Generative Report Summarization (using Phi, LLaMA, or Mistral)



Financial Services

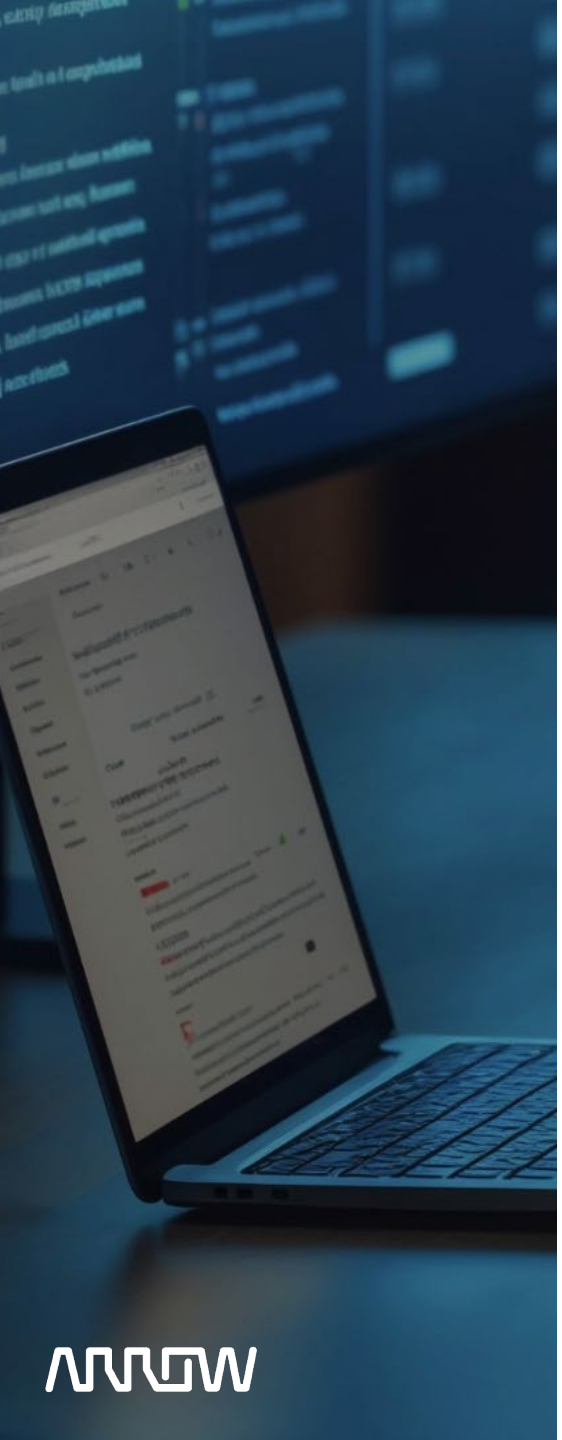
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Financal Services

RAPIDS

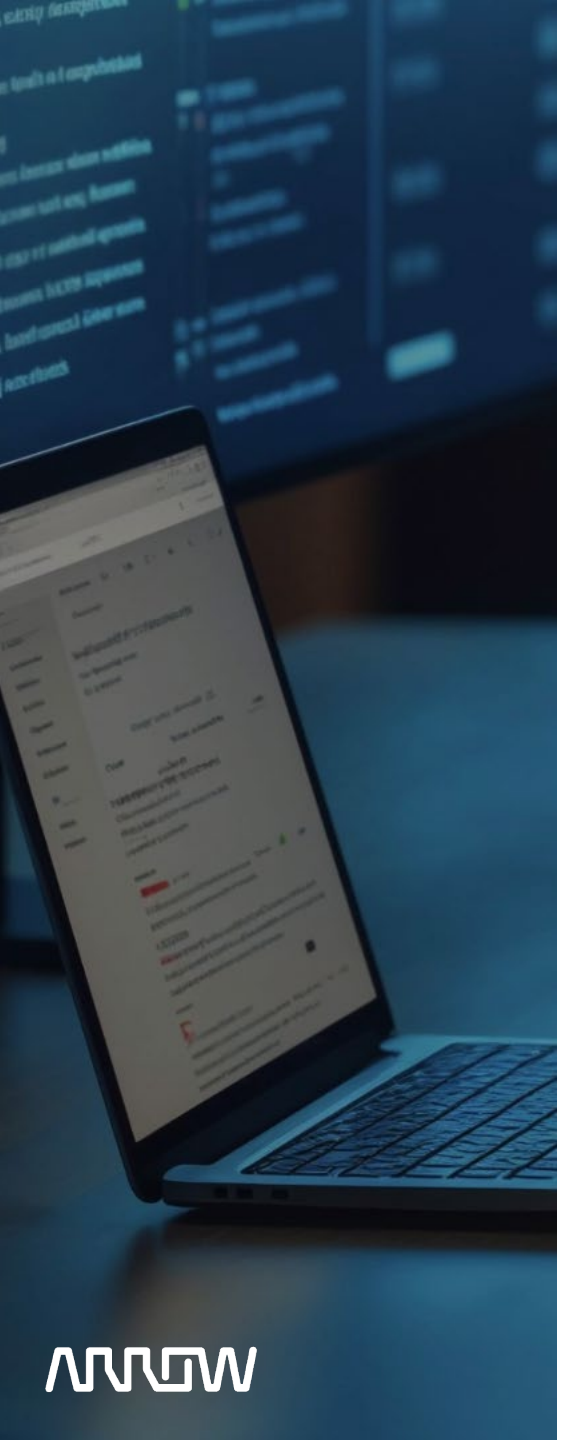
Use Case: Low-Latency, High-Volume Financial Data Prep

Benefit: Speed up financial data pipelines, enabling faster time-to-insight and improved model accuracy. Ideal for signal extraction from structured and unstructured data at scale.

- Faster alt data ingestion and prep
- Improve quality of fraud/risk/trading models
- Reduce latency in model retraining

Workloads:

- Alternative Data Merge
- Cleansing (dedupe, HTML, compression)
- High-Volume Data Analytics
- Signal Extraction
- Feature Engineering



Financal Services

Digital Human (RAG/AI Agents)

Use Case: Customer Service (Experience & Personalization)

Benefit: Deliver more personalized and better customer experiences:

- Chatbot assisted Call Center interactions
- Recommendation systems

Workloads:

- Reasoning, Retrieval/RAG,
- Speech AI/NLP, Guardrails,
- Recommender/Personalization



Retail and CFG



Retail and CFG

NVIDIA AI Workbench

Use Case: Experimenting with AI for Store Operations and Engagement

Benefit: AI Workbench enables retail data teams to test recommendation engines, inventory forecasting, and customer-facing LLMs using GitHub-hosted projects in a portable, containerized environment. Ideal for piloting AI tools across marketing, ops, and supply chain teams.

- Explore RAG use cases for internal product search or catalog support
- Run fine-tuning workflows to personalize engagement
- Use RAPIDS to accelerate pricing, inventory, and demand models

Workloads:

- Personalized Product Recommendations
- Inventory Forecasting (with RAPIDS or LLM-assisted logic)
- RAG Pipelines for Catalog/Store Assistant Use Cases
- Fine-Tuning for Customer Interaction Models
- Visual Content Generation via SDXL



Retail and CFG

NVIDIA Agentic AI Workflows NIM/Reasoning

Use Case: NVIDIA Agentic AI Workflows

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Workloads:

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Retail and CFG

RAPIDS

Use Case: Demand Forecasting & Ad Targeting Optimization

Benefit: Accelerate customer segmentation, product affinity modeling, and retail media campaign analytics. Supports dynamic pricing, real-time bidding, and inventory-aware targeting.

- Real-time insights for merchandising and ads
- Personalized campaign design
- Faster targeting and attribution models

Workloads:

- Customer Segmentation
- Ad Attribution & Targeting
- Inventory-Aware Recommendations
- Price Optimization
- Cross-Channel Analytics



Retail and CFG

Digital Human (RAG/AI Agents)

Use Case: Product Descriptions / Catalog Enrichment

Benefit: Apply LLMs to create a uniform and standard taxonomy for catalog. Simplify supplier onboarding, improve product pages, increase conversion, and create higher employee and customer satisfaction.

- Product descriptions
- Catalog enrichment
- Search / Product discovery

Workloads:

- Generative AI / LLM
- Computer Vision



Retail and CFG

Omniverse Enterprise

Use Case: Loss Prevention to Avoid Theft.

Benefit: Reduce1.4% shrinkage by 30-50% (Vision AI tech blog) Intelligent Stores

- Current low accuracy of loss prevention models in self-checkout and aisles
- Optimize and enhance store analytics

Workloads:

- Computer Vision
- Digital Twin/Simulation



Retail and CFG

Nemo Curator

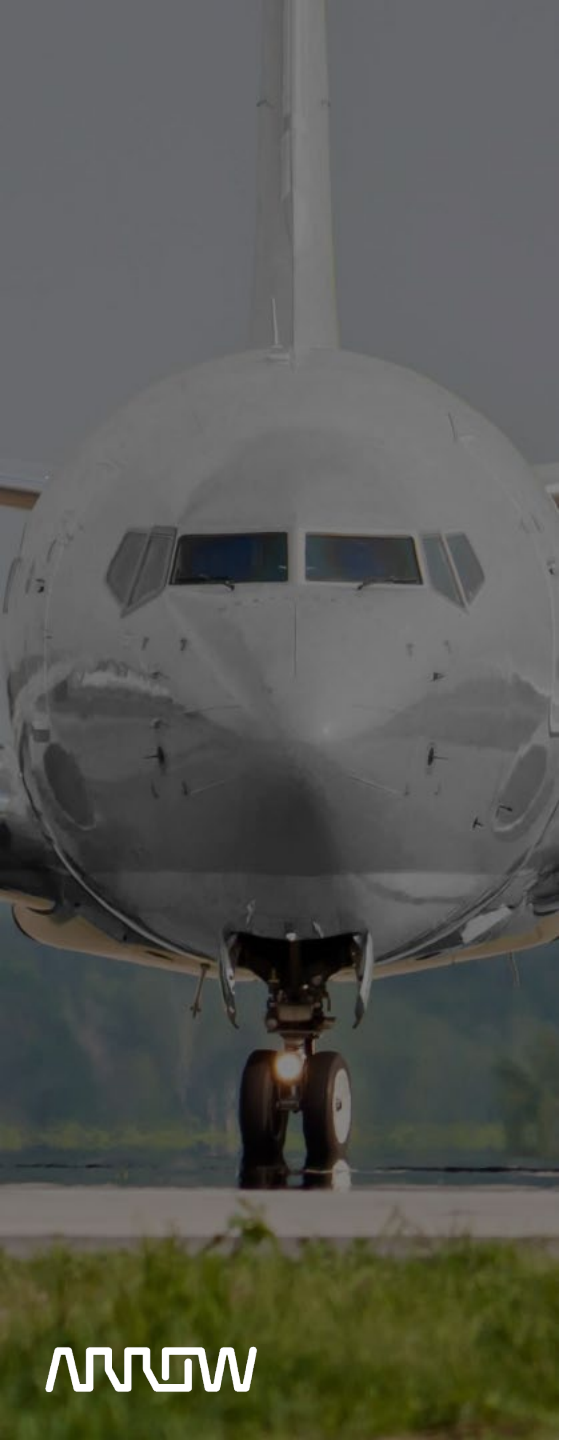
Use Case:
Benefit:

Workloads:

INFO COMING SOON



Automotive and Transportation



Automative and Transportation

NVIDIA AI Workbench

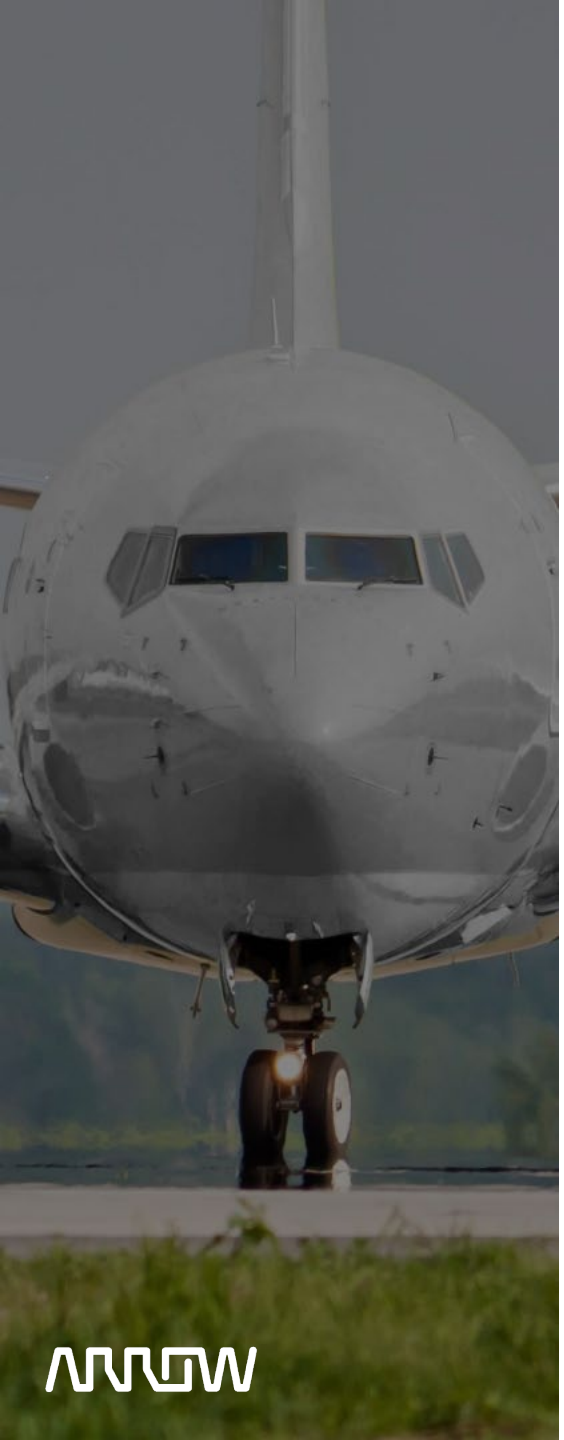
Use Case: Autonomous Vehicle Data & Telematics Processing

Benefit: Accelerate ingestion and analysis of sensor fusion, CAN bus data, and telemetry logs. Enables real-time diagnostics, predictive modeling, and digital twin updates.

- Faster data processing in AV CICD pipelines
- Improve model training loop efficiency
- Supports real-time vehicle analytics dashboards

Workloads:

- Sensor & Telemetry Log Processing
- Predictive Maintenance Modeling
- Driver Behavior Analytics
- AV CICD Model Validation
- Fleet Optimization



Automative and Transportation

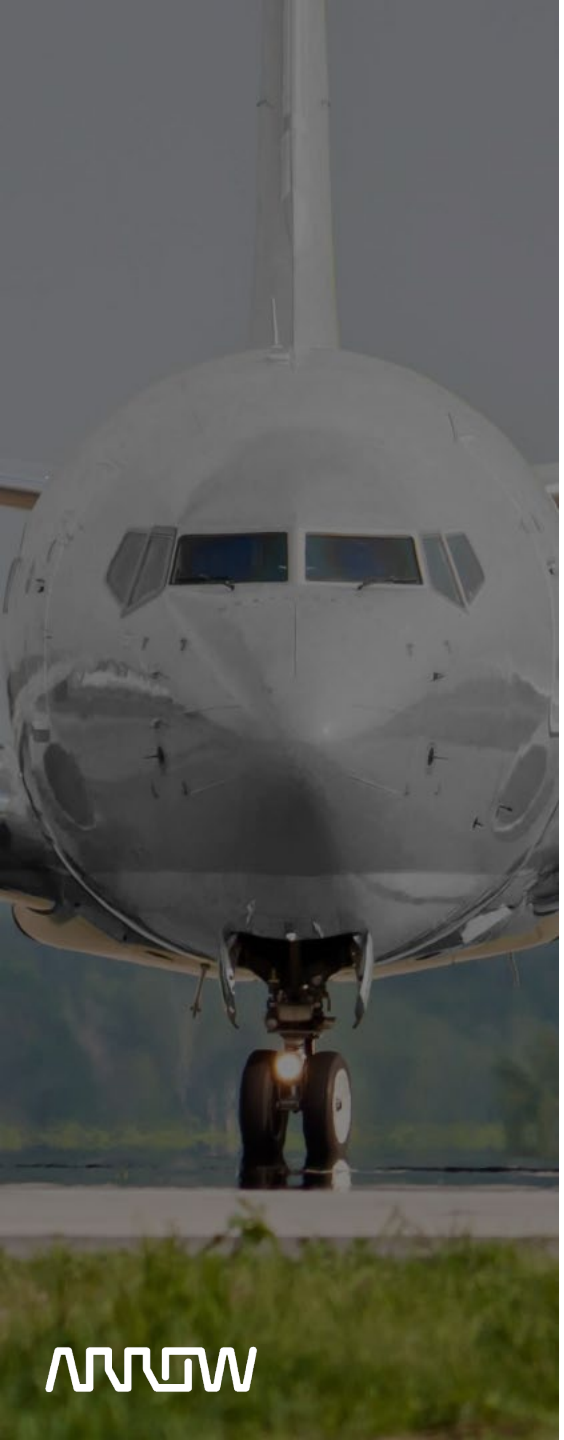
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Workloads:

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Automative and Transportation

RAPIDS

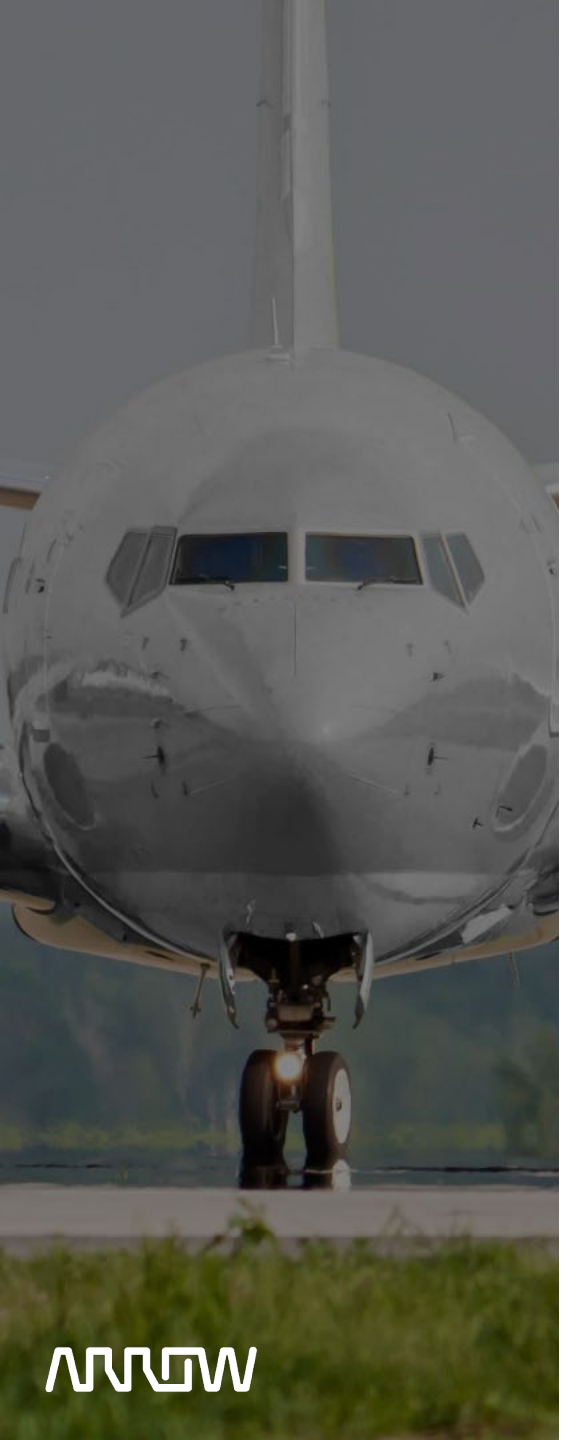
Use Case: Autonomous Vehicle Data & Telematics Processing

Benefit: Accelerate ingestion and analysis of sensor fusion, CAN bus data, and telemetry logs. Enables real-time diagnostics, predictive modeling, and digital twin updates.

- Faster data processing in AV CICD pipelines
- Improve model training loop efficiency
- Supports real-time vehicle analytics dashboards

Workloads:

- Sensor & Telemetry Log Processing
- Predictive Maintenance Modeling
- Driver Behavior Analytics
- AV CICD Model Validation
- Fleet Optimization



Automative and Transportation

Digital Human (RAG/AI Agents)

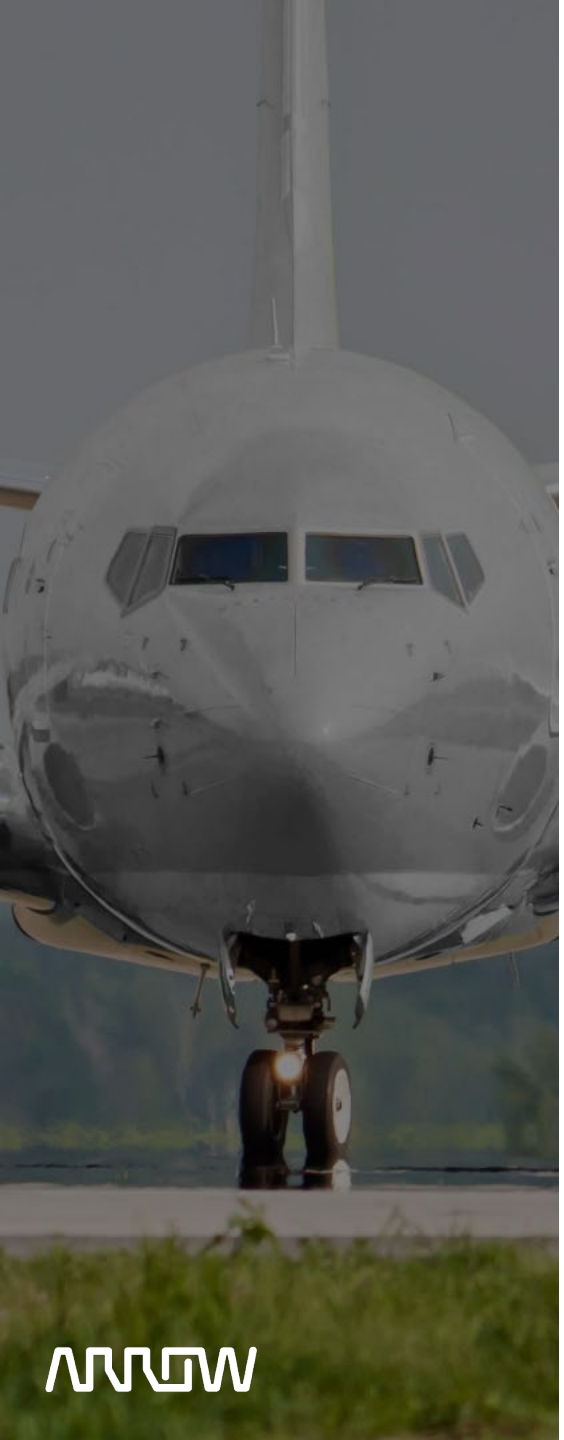
Use Case: Improving Employee and Customer Service Efficiencies

Benefit: Gen AI are 2.6X more likely to increase revenue by 10% or more, save $100s MM in costs / customer & $100s MM Quality cost reduction

- Customer interactions - contact centers
- Text generation - Corporate E-mail, Public Relations
- Code generation - component design, requirements validation

Workloads:

- Call Center Digital Assistant
- Engineering Knowledge Base
- Generative AI
- Reasoning, Retrieval/RAG,
- Speech AI /NLP, Guardrails



Automative and Transportation

Omniverse Enterprise

Use Case: Virtual Factory

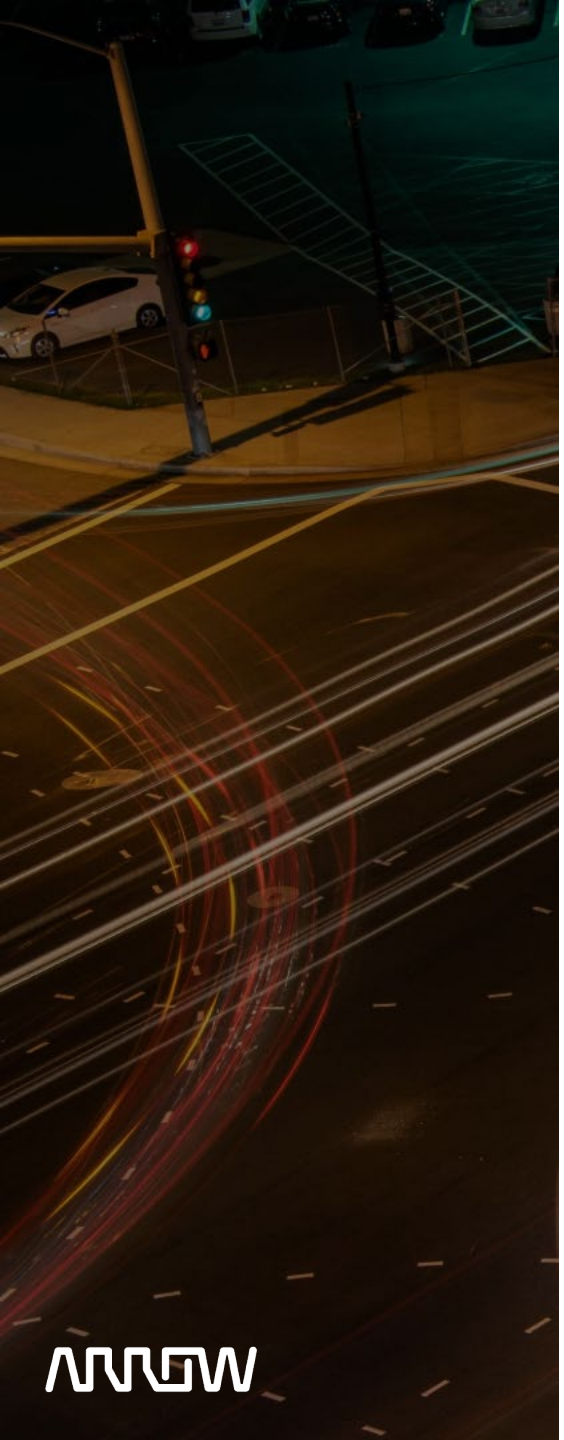
Benefit: Develop USD-based tools, applications, and data pipelines to accelerate and unlock new possibilities (BMW, Mercedez Benz, Continental, Optimizing Intralogistics blog, Talk to Your Supply Chain Data Using NIM)

- Factory planning
- Process simulation
- Robotics training
- Operations
- AI Workflow: Multi-Camera Tracking

Workloads:

- Data Aggregation
- Digital Twin
- Optimizer Engine
- Rendering / Ray Tracing
- Simulation / Modeling / Design
- USD Data Pipeline Virtualization


Public Sector



Public Sector

NVIDIA AI Workbench

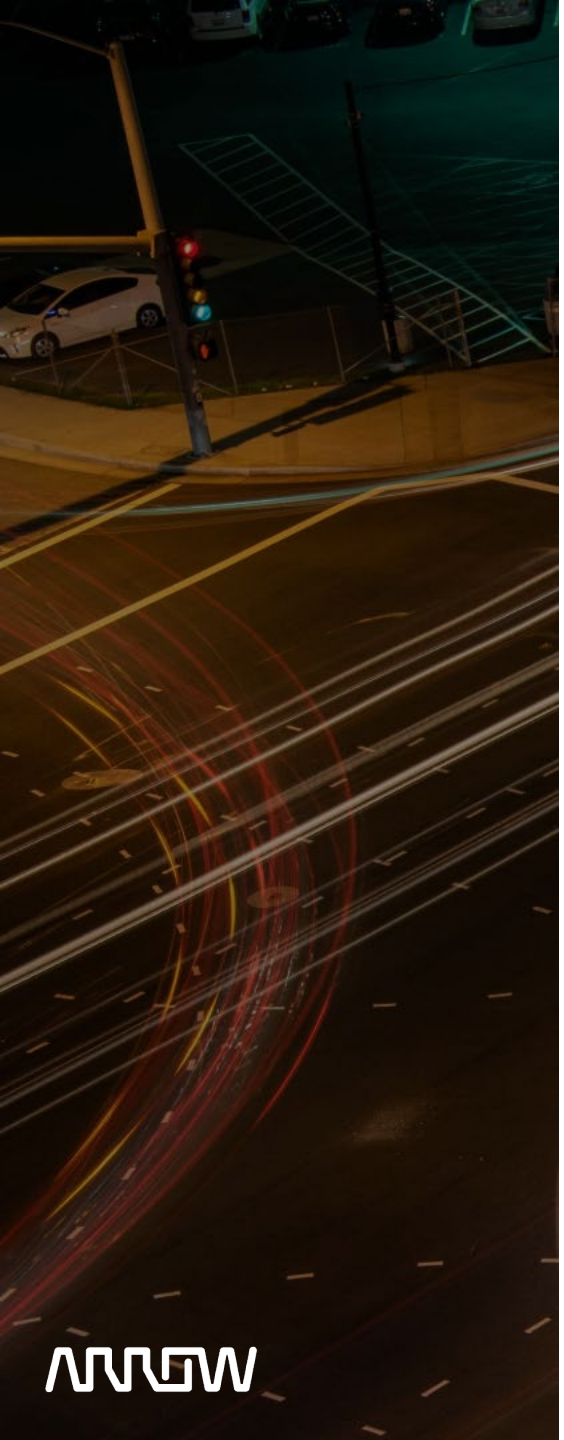
Use Case: Experimenting with LLMs & Analytics for Public Services

Benefit: AI Workbench enables public sector teams to prototype LLMs for document search, policy summarization, and citizen service chatbots. Use GitHub-hosted projects to test data science workflows and GenAI applications in containerized, reproducible environments.

- Use RAG pipelines for internal knowledge retrieval
- Explore RAPIDS for fast processing of structured and semi-structured public datasets
- Fine-tune open-source models for use in agency-specific workflows

Workloads:

- RAG-based Document Search (e.g., policy or grant info)
- Model Fine-Tuning for Internal LLMs
- Public Records Data Analytics (with RAPIDS)
- Multimodal Assistant Prototyping (citizen Q&A)
- Lightweight SDXL Customization (visual communications)



Public Sector

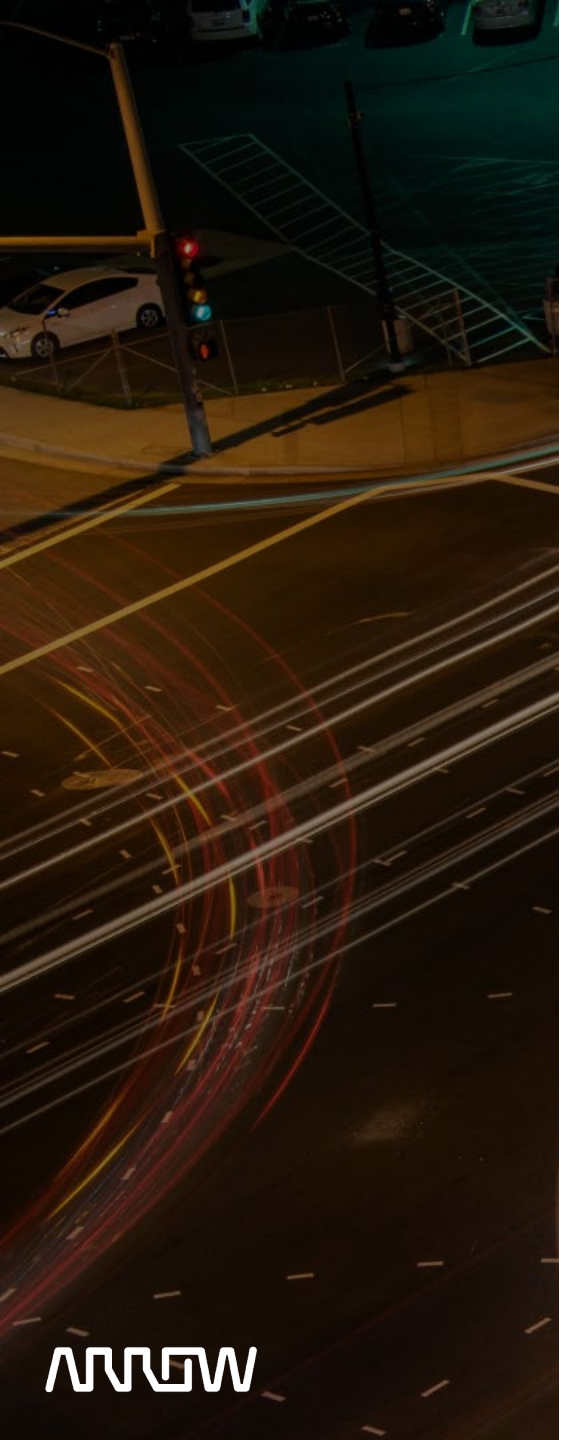
NVIDIA Agentic AI Workflows NIM/Reasoning

Use Case: NVIDIA Agentic AI Workflows

Benefits: NVIDIA Agentic AI for Documents is an advanced AI-driven solution designed to automate and optimize document processing workflows within invoicing, ERP systems, and broader business automation. By leveraging **NVIDIA NIM microservices for reasoning and OCR**—along with MCP for agent orchestration—this solution enables intelligent extraction, validation, and decision-making on complex business documents.

Workloads:

Reasoning & OCR with NIMs: Uses NVIDIA NIM microservices for both deep reasoning and high-accuracy OCR, enabling contextual understanding of invoices, purchase orders, and other financial documents.
AI-Powered Data Extraction: Automatically identifies and extracts critical data fields with minimal manual intervention.
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Public Sector

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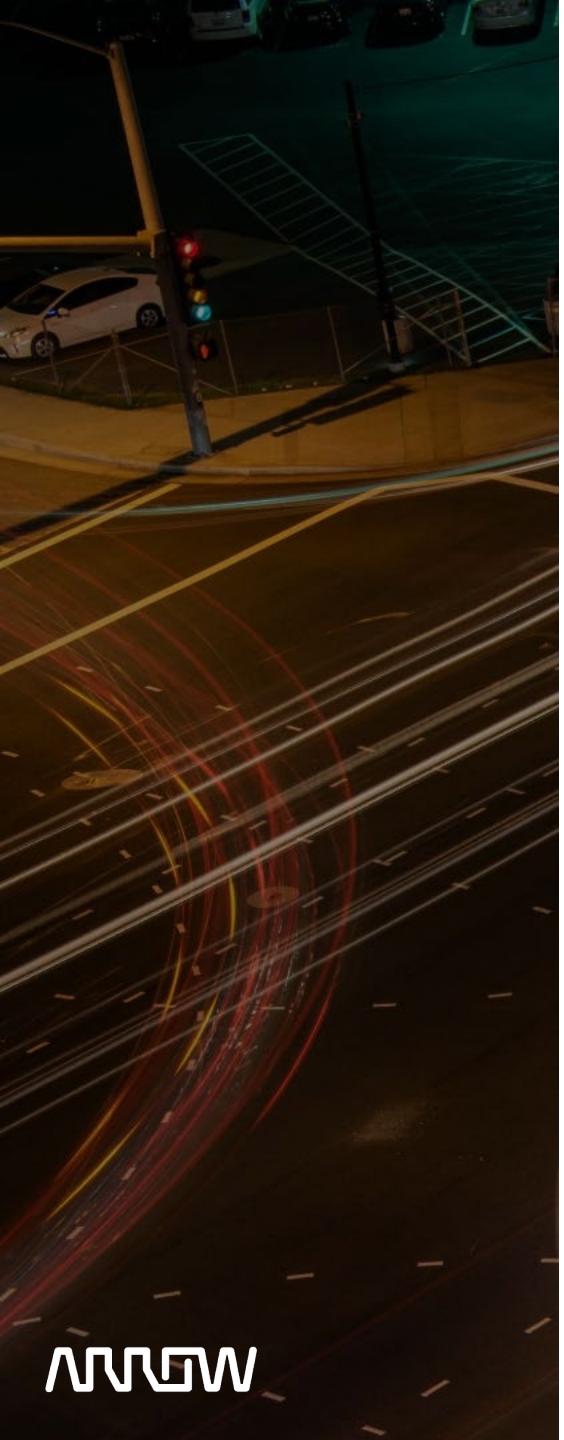
Use Case: Customized and Streamlined Public Service Delivery

Benefit: Provide citizens AI-assisted and customized access to government information and support services

- Intelligent Chatbots, Virtual Assistants, and Digital Humans
- Digital public service delivery enabling government services and information to be more accessible to citizens
- Automated public sector workflows that enable enhanced problem-solving & efficiency of public sector services
- Simulates human interaction with constituents to personalize engagement

Workloads:

- Conversational AI
- Digital Human
- Generative AI
- Retrieval/RAG
- Vision AI



Public Sector

Omniverse Enterprise

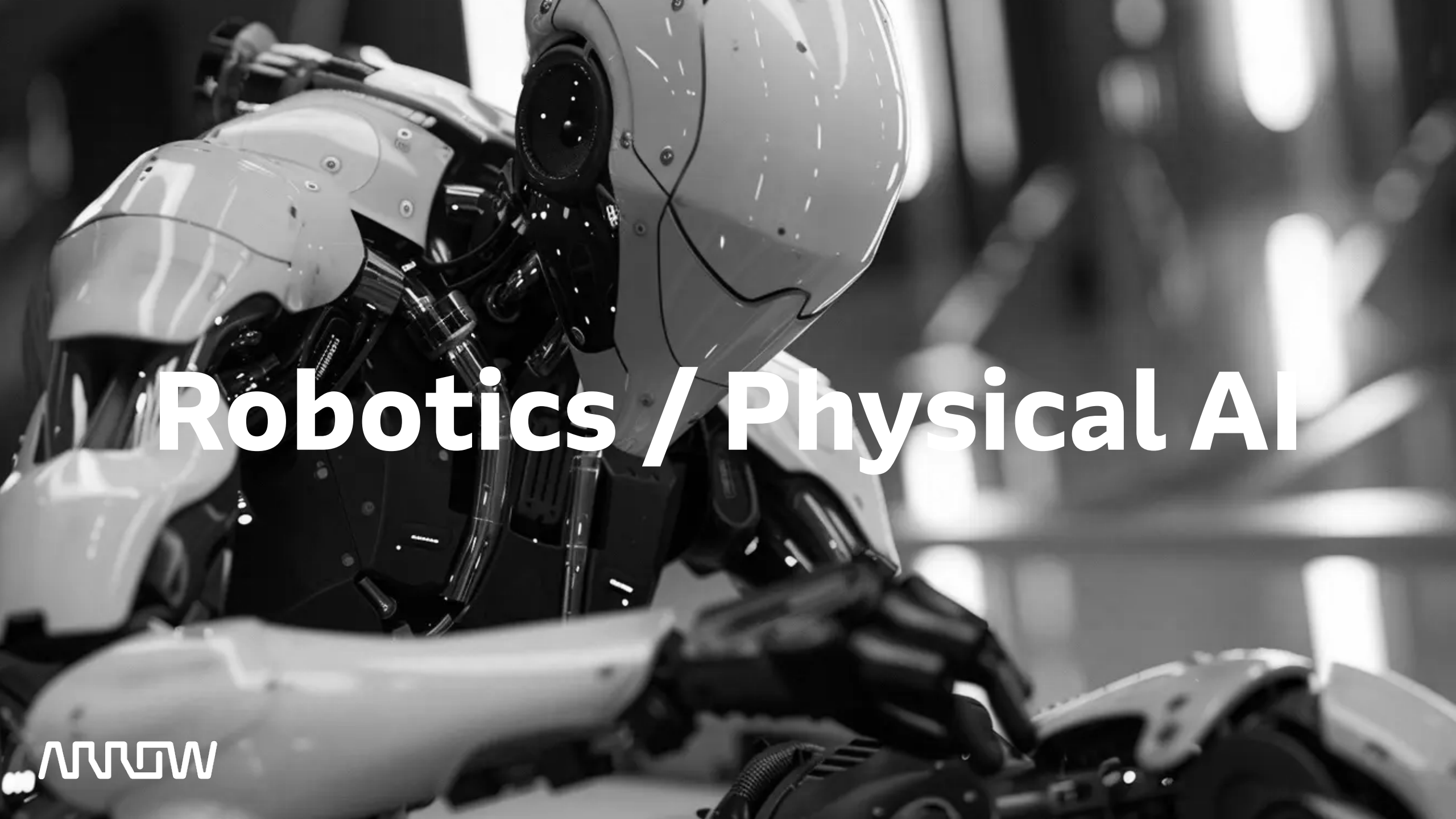
Use Case: Virtual Factory

Benefit: Develop USD-based tools, applications, and data pipelines to accelerate and unlock new possibilities (Optimizing Intralogistics blog, Talk to Your Supply Chain Data Using NIM, Vision AI tech blog)

- Factory planning
- Process simulation
- Robotics training
- Operations

Workloads:

- Data Aggregation
- Digital Twin
- Simulation / Modeling / Design
- USD Data Pipeline
- Virtualization


Robotics / Physical AI



Robotics / Physical AI

Omniverse Enterprise

Use Case:

Benefit:

Workloads:

INFO COMING SOON