# DATA SCIENCE WORKSTATION SALES BATTLECARD

The most powerful enterprise solution for data science on the desktop.

## TARGET CUSTOMER SEGMENTS FOR DATA SCIENCE WORKSTATIONS

### CONSUMER INTERNET
Ad Personalization
Click Through Rate Optimization
Churn Reduction

### AUTOMOTIVE
Intelligent Customer Interactions
Connected Vehicle Predictive Maint.
Forecasting, Demand, Capacity Planning

### GOVERNMENT
Predictive Analysis
Cyber Security
Fraud Detection

### HEALTHCARE
Improved Clinical Care
Drive Operational Efficiency
Speed Up Drug Discovery

### MANUFACTURING
Remaining Useful Life Estimation
Failure Prediction
Demand Forcasting

### RETAIL
Supply Chain & Inventory Mgmt
Price Management
Ad Targeting

### FINANCIAL SERVICES
Insurance
Claim Fraud
Customer Service Chatbots

### TELECOM
Detect Network/Security Anomalies
Forcasting Network Performance
Network Resource Optimization

### OIL & GAS
Sensor Data Tag Mapping
Anomaly Detection
Robust Fault Prediction

## IDENTIFYING OPPORTUNITIES FOR DATA SCIENCE WORKSTATIONS

**Development: Is your organization using machine learning or deep learning?**
Data Science Workstations are powerful platforms for machine learning and deep learning projects.

**Workflow: Is your customer using data science tools?**
Data scientists can improve the performance of their data science projects by 10X or more by taking advantage of the GPU acceleration provided by Data Science Workstations

**Infrastructure: Is your customer using PCs, laptops, or servers for data science projects?**
Data Science Workstations enable GPU accelerated data science workflows with large GPU memory to offload server based data prep, training, and visualization.

**Other questions:**

- How long does it take for the data preparation portion of your data science workflow?
- How long does it currently take you to train on your models?
- How frequently do you update your model?
- What is the size of your datasets?
- How do you currently deploy data science models?
- Is your data out of date by the time you have processed it?
- Are you going to expand your current data science project teams?
- Are you going to increase the number of data science projects?
- Are you concerned about data security with cloud-based data science deployments?

## WHO ARE THE USERS AND CUSTOMERS FOR DATA SCIENCE WORKSTATIONS?

### Data Scientists
**Use Data Science Workstations to:**

> Reduce data prep and training time
> Run end-to-end data science pipelines for large datasets on the desktop
> Do predictions and visualize results

### CIO, CTO, CMO, Line of Business
**Buy Data Science Workstations to:**

> Maximize insight, speed up business decisions
> Minimize data science project IT costs
> Provide flexible hardware solutions

### IT Directors and Managers
**Provide Data Science Workstations to dev teams to:**

> Provide enterprise quality hardware and support
> Simplify deployment
> Minimize IT support requirements

# OVERVIEW OF DATA SCIENCE WORKSTATIONS

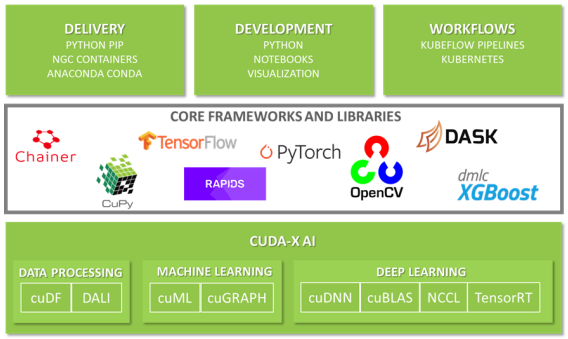
**Enterprise ClassSolutions for Data Science Development**
Built by leading workstation providers to combine the power of NVIDIA RTX GPUs with accelerated CUDA-X AI data science software to deliver a new breed of fully-integrated workstations for data science.

- Integrated hardware and software solution with a fully optimized GPU-accelerated data science software
- NVIDIA RTX A6000, RTX 8000, and RTX 6000 provide up to 96 GB of ultra-fast GPU memory to handle the largest datasets and compute-intensive workloads.

With NVIDIA powered data science workstations you can maximize productivity, reduce time to insight and lower the cost of data science projects with workstations built to ensure the highest level of compatibility, support and reliability.

**Integrated Hardware and GPU-Accelerated Software Solution**
NVIDIA-powered data science workstations come with a comprehensive stack of tested and optimized data science software built on the NVIDIA CUDA-X AI. This stack features RAPIDS data processing and machine learning libraries, NVIDIA optimized TensorFlow, PyTorch, Caffe and other leading data science software, providing enterprises with accelerated workflows for faster data preparation, model training and data visualization.

## INTEGRATED HARDWARE & SOFTWARE SOLUTION




DATA SCIENCE WORKSTATION

## CUSTOMER SUCCESS

*"The NVIDIA powered Data Science Workstation promises to ease the transition and democratize the application of data science. Its combination of well-designed software and highly performant hardware provides a 20x and higher speed-ups in our analytics work and our team found its ease of use liberating."*
- Steve Walker, Associate Director, Arup Advanced Digital Engineering

*"The NVIDIA powered data science workstation enables our data scientists to run end-to-end data processing pipelines on large data sets faster than ever. Leveraging RAPIDS to push more of the data processing pipeline to the GPU reduces model development time which leads to faster deployment and business insights."*
-Mike Koelemay, Lockheed Martin Fellow

# FREQUENTLY ASKED QUESTIONS

**Q. What are the advantages of Data Science Workstations over alternative platforms?**
A. Data science workstations provide a fully integrated, tested, and GPU accelerated solution for data science that accelerates all phases of the data science workflow.

**Q. How do I purchase Data Science Workstations?**
A.Customers can purchase Data Science workstations from leading workstation and system providers.

**Q. Is any support provided for Data Science Workstations?**
A. NVIDIA provides optional software support services for NVIDIA developed deep learning and machine learning containers, NVIDIA drivers and CUDA. This support is provided directly by NVIDIA.

**Q. How do I purchase this additional software support?**
A. Support can be purchased directly from your workstation hardware provider.

**Q. Can I run other software besides what's included?**A. Yes, data science workstations are an ideal platform to run GPU-accelerated software.

**Q. How much work is required to use the GPU-accelerated software in place of the CPU-based tools I'm Currently using?**
A. It depends on the complexity of the project, but in many cases you can just change a few lines of code to start taking advantage of NVIDIA GPUs for data preparation and machine learning.

**Q. Is the Data Science Workstation the only NVIDIA solution for data science?**
A. NVIDIA provides a comprehensive set of solutions for data science from the desktop to the data center. You can find out about GPU accelerated data science tools and NVIDIA data science solutions here.

# RESOURCES

> **www.pny.com/professional**
> **www.pny.com/datascienceworkstations**
> **www.pnypartners.com**