

Introducing **SCIDATA AI**: Revolutionizing Scientific Discovery

Your Partner for Automated & Intelligent Research

The Challenge in Modern Research:

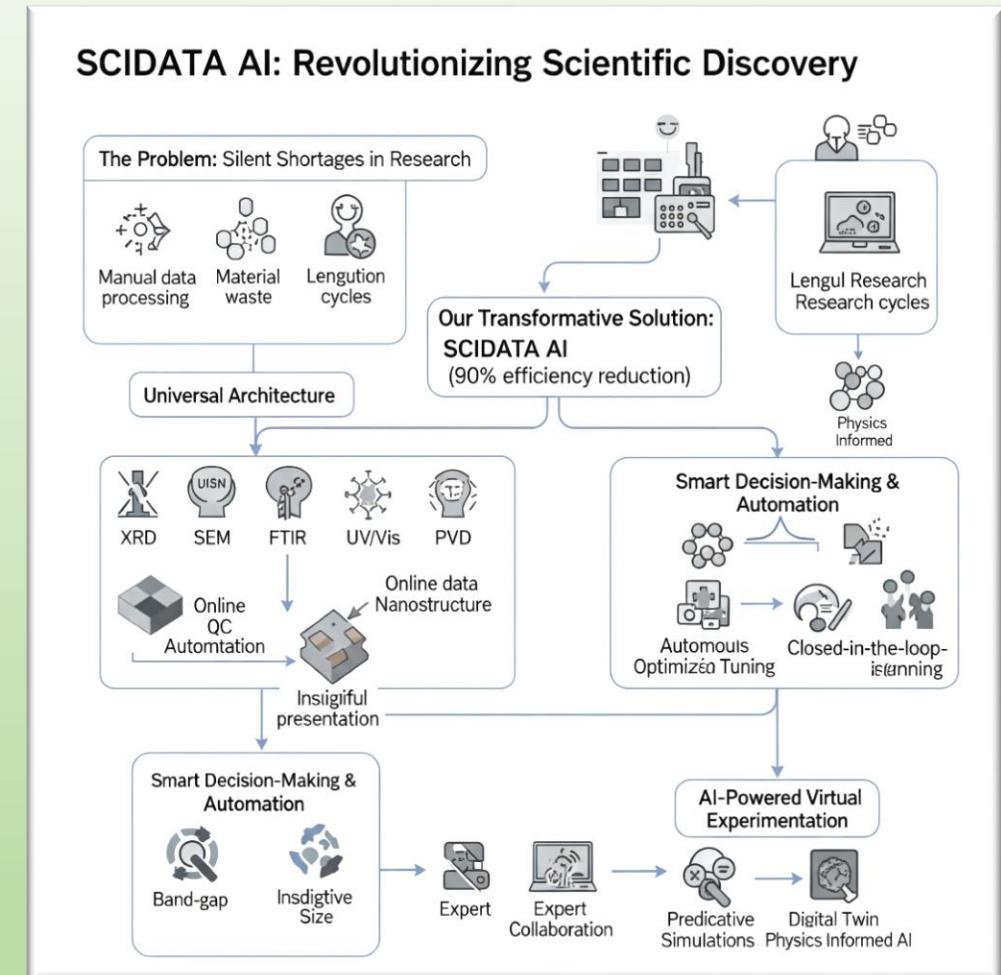
Research centers globally face "silent shortages": significant time spent on manual data processing, material waste from suboptimal experiments, and prolonged discovery cycles due to analytical bottlenecks.

Our Transformative Solution:

SCIDATA AI offers an advanced, AI-driven platform for comprehensive data visualization, automation, and virtual experimentation. We cut inefficiencies by up to 90%, accelerating your journey from raw data to groundbreaking insights.

Ready for Your Lab:

Our universal architecture is designed for seamless integration and optimization across any research or investigation center – from academic laboratories to industrial quality control. We are fully prepared to empower your unique characterization workflows and drive your next breakthrough.



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The Silent Shortages in Research Centers Worldwide

Why AI-Driven Data Visualization & Automation is Crucial for every kind of Investigation Center



The Problem

Even Modern centers waste critical resources:

- 40-70% researcher time on manual data processing
- 30% materials from suboptimal synthesis iterations
- 6-8 week discovery cycles due to analysis bottlenecks

My solution reduces inefficiencies by 90% through fast-simple, automated online data visualization and AI integration.



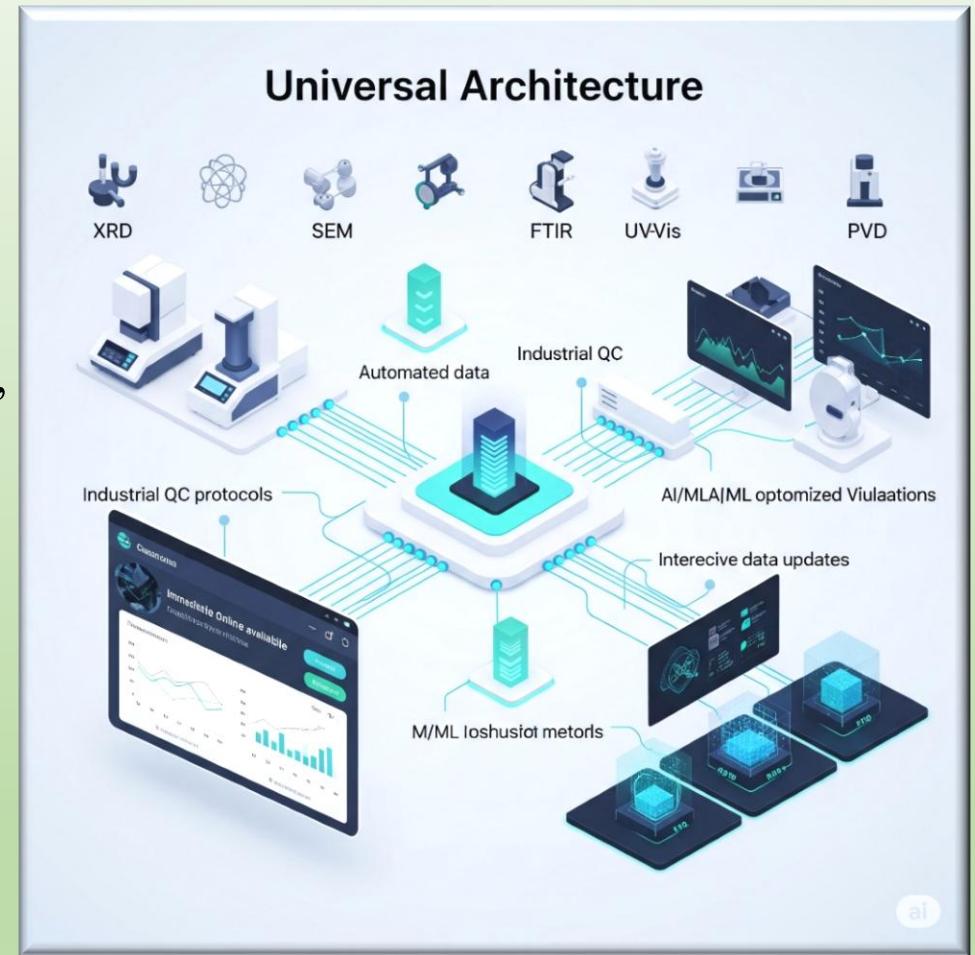


Universal Architecture

(Adaptable to any characterization workflow (from academic labs to industrial QC)

Automation for advanced Scientific DATA Visualization

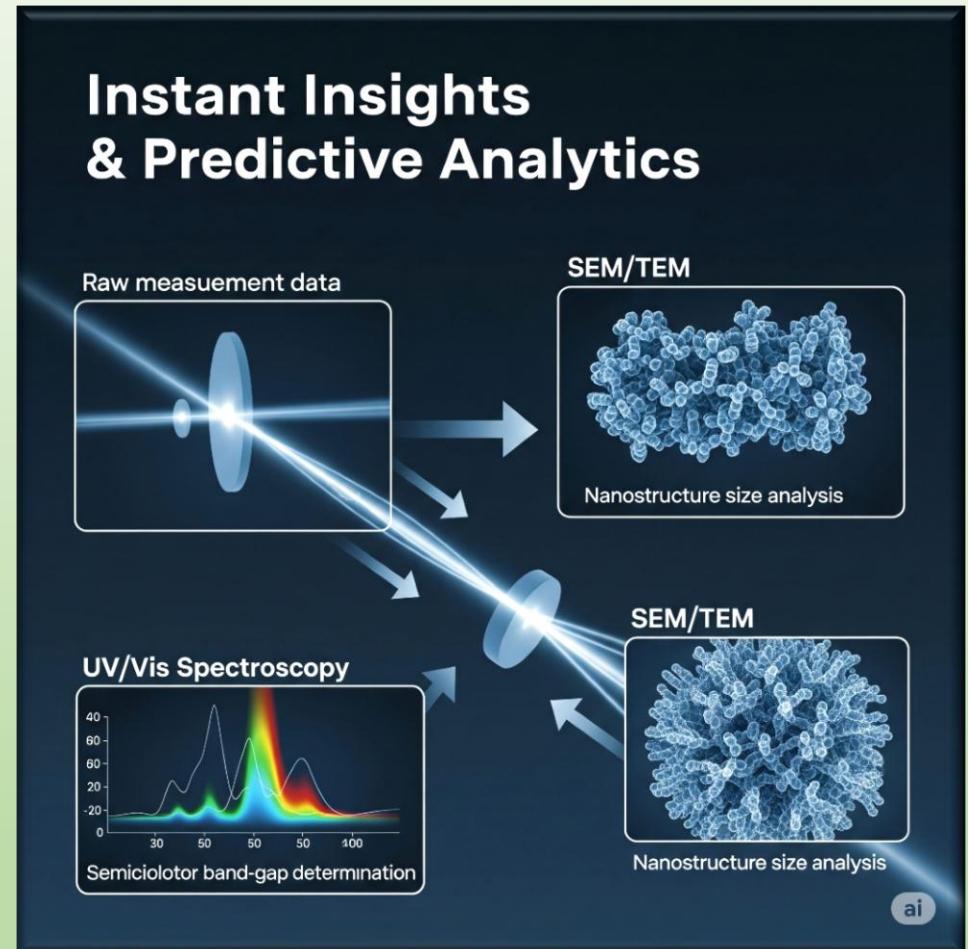
- Seamless integration with instrument types (like :XRD, SEM, FTIR, UV/Vis, PVD)
- Automated parsing for industrial QC protocols (Standard compliant)
- Offering advanced data presentation styles based on traditional methods or AI/ML optimized approaches.
- Results are available online quickly after measurement or reporting.
- AI/ML provides a novel approach to data presentation by learning expert skills.
- This method can offer insights even to experts.





Instant Insights & Predictive Analytics

Instantly generates complex predictions from raw measurement data, facilitating comprehensive analysis with analogous or disparate parameters. Examples in research lab include determining semiconductor band-gap from UV/Vis Spectroscopy, or nanostructure size from SEM/TEM image.





Smart Decision-Making & Automation

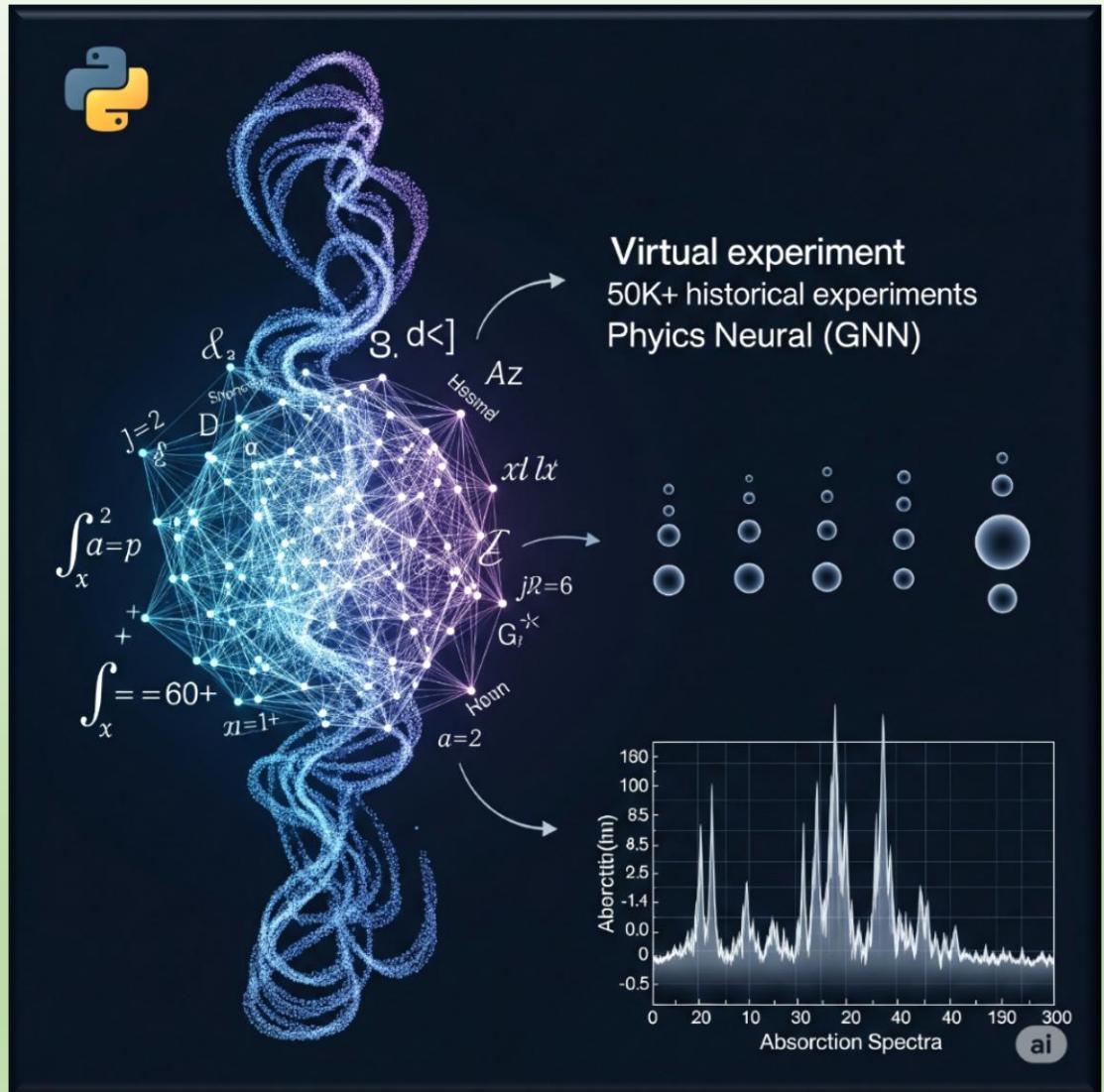
Providing interpretation of results and a clear roadmap for subsequent activities, in collaboration with skilled experts. This is powered by autonomous optimization through automated data manipulation using advanced Machine Learning/Artificial Intelligence (ML/AI) models.

This approach facilitates closed-loop experimental parameter tuning and human-in-the-loop control systems.



AI-Powered Virtual Experimentation

- Revolutionizing materials research through predictive insights without physical trials
- This system predicts material properties and characterization results, often leveraging digital twin simulations, powered by Physics Informed AI.



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