



Connect with us to discover how AI can transform your business.



**Service offering:
AI Exploratory Labs**



Your Enterprise AI Architect

From insight to
implementation.

We guide your
company to find its
way in the AI driven
era.



Neuron Solutions was formed 6 years ago with the mission to help enterprises understand, introduce and use AI in their everyday operations. In this journey starting with getting to know the technology and ending with the massive, continuous use of AI, Neuron Solutions offers to be your partner.

AI Exploratory Labs offers the development of custom AI solutions, harnessing our team's extensive expertise and unique strengths in specific AI niches to push the boundaries of machine learning.

We seek to collaborate with entities that have a robust digital infrastructure and a clear vision for AI, focusing on forming strategic partnerships with organisations poised to integrate cutting-edge AI into their operations.

Why the exploratory approach is necessary: Situations Where Experimentation is Crucial in AI Development

1. Emerging Problem Domains

When addressing relatively unexplored challenges where data patterns are unknown or incomplete, experimentation is crucial for discovering innovative approaches and refining objectives as new insights emerge.

2. Complex Data Environments

Projects involving heterogeneous, unstructured, or sparse data require iterative experimentation to identify relevant patterns and validate models, as predefined goals might not align with the data's complexity.

3. Multi-Faceted Solutions

When tackling complex issues like enhancing global supply chains or predicting market demand shifts, exploring various modelling approaches is crucial. This strategy helps navigate the complexities of these multifaceted problems, which involve numerous factors and stakeholders.

4. Dynamic Business Needs

In industries undergoing rapid technological change or regulatory shifts, experimentation allows organisations to pivot quickly, ensuring their AI strategies adapt to evolving business objectives.

5. Cutting-Edge Technology Integration

When deploying state-of-the-art or emerging AI technologies like deep reinforcement learning, continual experimentation is necessary to uncover the best practical use cases and implementation methods due to limited existing benchmarks.

In these situations, an experimental approach enables flexibility, encourages creativity, and allows for rapid adaptation to new findings, ultimately leading to more relevant and effective AI solutions.



Real-world insight: Applying AI in pharmaceutical research

In the field of pharmacology, [Gedeon Richter pharmaceutical company](#) uses a specially designed behavioural observation system for advanced animal behaviour studies in cognitive testing. This system collects vast amounts of data, which had been challenging to be analysed by traditional data analytics methods. Neuron Solutions utilised an exploratory approach to try various advanced machine learning technologies with self-supervised neural networks proving the most efficient for achieving significant improvements in analysing cognitive tests and substances. This iterative, experimental process employed by Neuron Solutions enhanced research methodologies and the value of data created in the animal behavioural observation system's, demonstrating high potential of machine learning in pharmacological research.

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