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CASE STUDY

Speeding up Merck's R&D process from 6 months to 6 hours

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Merck is a leading company in the life science industry, operating in 66 countries with 57,000 employees.

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They wanted to accelerate the long manual process of identifying key chemical compounds from scientific literature for future sales.

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Together, we went for an AI R&D Assistant to:

- Analyze and identify chemicals in articles
- Assign official names and unique codes
- Retrieve additional chemical properties
- Check the company catalog for sold chemicals

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Was it easy?

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Not quite...

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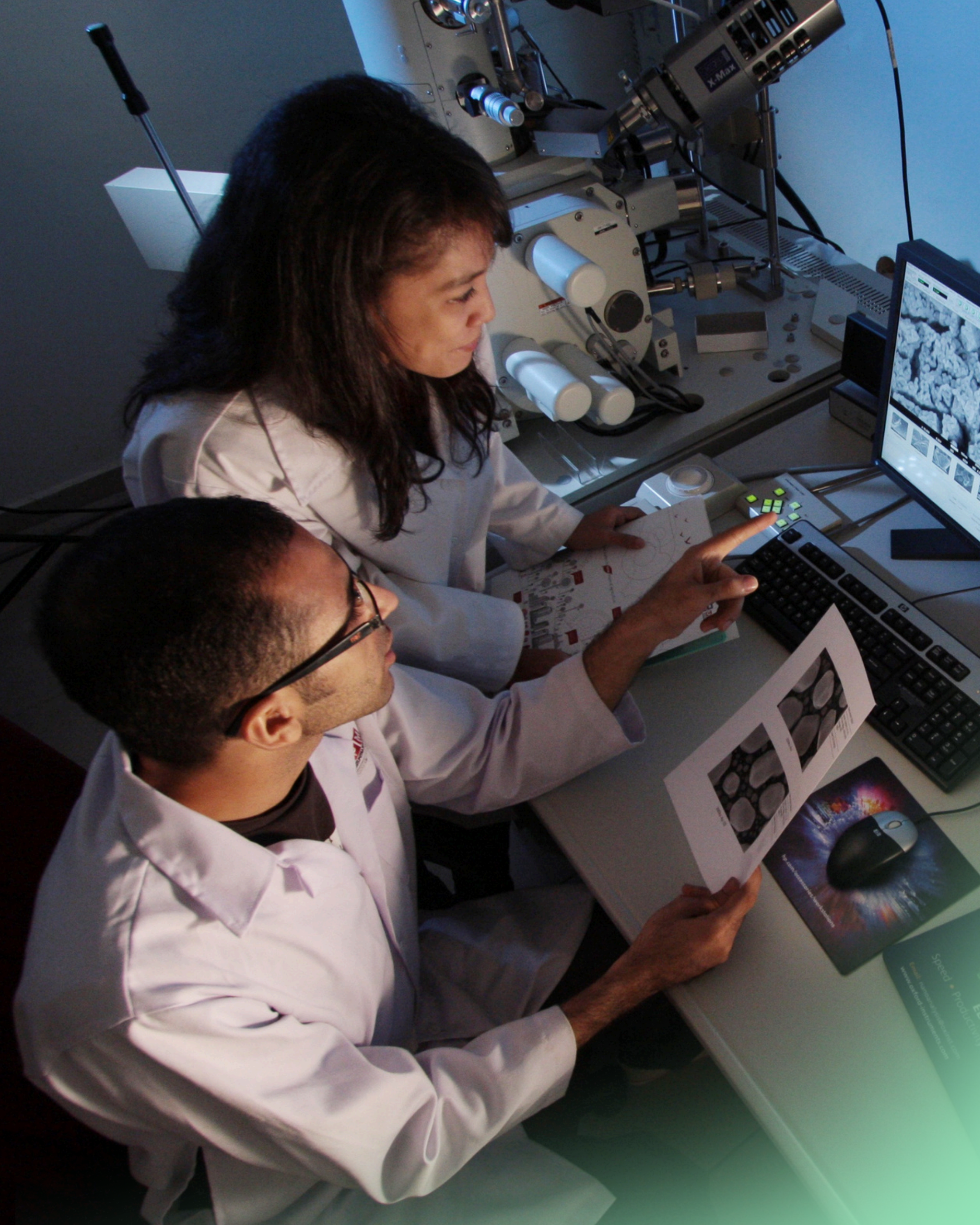
We faced a few challenges:

- Massive input data exceeded LLM limitations
- The internal catalog lacked complete chemical details
- We had only 5 weeks to deliver a POC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So how did we solve those?

- We handled LLM limitations by splitting input into chunks
- We processed and enriched the catalog with compound details
- With a team of data engineers and engineer leads, we got straight into work

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What were the outcomes:

- AI-powered interface for chemical identification and analysis
- Process time reduced from 6 months to 6 hours
- Proof of concept completed in 5 weeks

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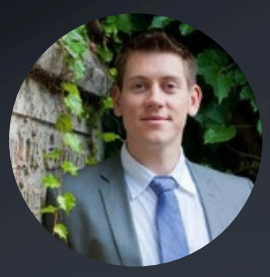
"If I had to choose two words to summarize our collaboration with Netguru it would be speed and efficacy. They delivered a POC within 5 weeks."



Mark Greiner
Digital Innovation Manager at Merck KGaA Darmstadt

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Own the change with Netguru