



CASE STUDY

MANN + HUMMEL

**Maximizing efficiency and
impact of data science initiatives
using Vectice**



vectice



Company Overview

MANN+HUMMEL is a global leader in filtration solutions offering innovative solutions that improve air and water quality. With a strong commitment to research and development, MANN+HUMMEL continually advances its filtration technologies to meet the evolving needs of various industries, including automotive, industrial, and life sciences.

Situation

MANN+HUMMEL wanted to maximize the efficiency and impact of its AI and data science initiatives. With a diverse range of products and services, MANN+HUMMEL's data science and AI teams are tasked with managing complex projects across multiple domains with key challenges:

- **Complex Project Management:** Handling numerous projects simultaneously, each with unique requirements and datasets.
- **Collaboration:** Ensuring seamless collaboration among team members spread around the world.
- **Documentation:** Creating an audit trail by maintaining comprehensive records of experiments, models, and results to facilitate reproducibility and knowledge sharing.



Solution

To realize its vision and achieve its goals, MANN+HUMMEL partnered with Vectice to streamline its AI documentation processes, enhance collaboration, and drive impactful results.

Vectice delivered a comprehensive solution tailored to the needs of their data science teams around the world. By using Vectice, MANN+HUMMEL benefited from the following:

How MANN+HUMMEL achieved their goals

1. **Automated AI Project Documentation**

Vectice's robust documentation capabilities ensured that every step of the data science process was recorded, making it easier to reproduce experiments and share knowledge within the organization. Vectice captures metadata, model lineage, and insights from various AI tools, ensuring continuous and up-to-date documentation. This allows the team to maintain a clear and detailed record of their work.

2. **Enhanced Collaboration**

The platform enables real-time updates, standardized templates, and transparent project tracking, fostering better teamwork and communication. Team members can seamlessly share insights and updates, ensuring everyone stays on the same page and contributing to a more cohesive working environment.

3. **Auditability**

Vectice ensures that AI/ML project documentation adheres to guidelines, providing transparency and accountability throughout the AI lifecycle.



Impact

Implementing Vectice had a significant impact on MANN+HUMMEL's data science initiatives. The key benefits included:

1. **Increased Efficiency**

Streamlined project management and improved collaboration led to up to 30% faster Data Science project completion times.

2. **Faster remodeling**

Comprehensive documentation allowed for easier retraining of new model versions, transforming the team into a fast-to-fail agile approach that continuously drives innovation.

3. **Improved Collaboration**

Teams across different locations could collaborate seamlessly, leveraging each other's expertise to achieve better outcomes.

"Vectice data science documentation and collaboration features have improved our productivity. The comprehensive documentation provided by Vectice ensures that our knowledge is secured and well managed, while moving faster with our AI/ML initiatives."

Nick Zeleznick, Data Science Manager



Conclusion

By adopting Vectice, MANN+HUMMEL is maximizing the efficiency and impact of its data science initiatives with better collaboration and documentation. Vectice has proven to be an invaluable tool in helping MANN+HUMMEL deliver data science impact faster in production.



About Vectice

Vectice is the Regulatory MLOps platform for AI/ML developers and validators. Vectice makes documenting, governing, and collaborative reviewing of AI/ML models a breeze.

Vectice continuously documents models throughout the model lifecycle, keeping models audit-ready while ensuring transparency and alignment with evolving standards. With automated lineage tracking, integration of validation libraries, and customizable workflows, Vectice empowers AI developers and model validators to focus on high-impact work while ensuring they follow regulatory guidelines.

Vectice works with global AI/ML developers, validators, and leaders to realize ROI within 45 days by expediting approval workflows that accelerate time-to-production by 25%, maximizing operational efficiency that slashes documentation creation time by 90% and increases team productivity up to 25%.

Vectice integrates seamlessly with popular AI/ML tools like Python, R, Snowflake, Databricks, MLflow, and more.

For more information, visit www.vectice.com