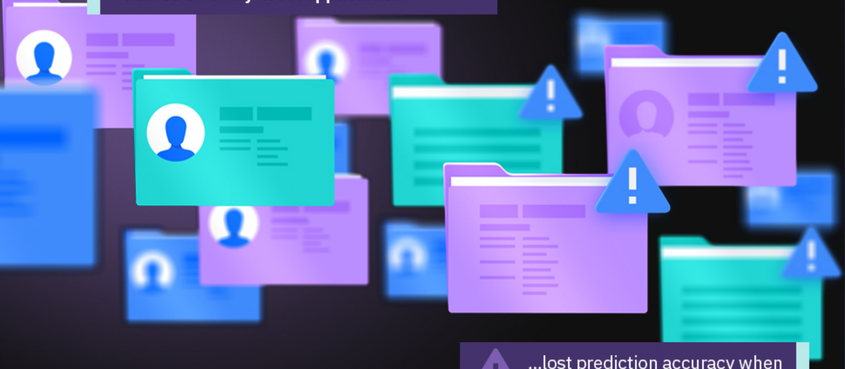
What is **AI model drift** and why is it risky?

Problem:
The accuracy of AI models can drift (degrade) within days when production data differs from training data.

This can negatively affect business KPIs.

An HR job candidate screener trained on **entry-level applicants**...

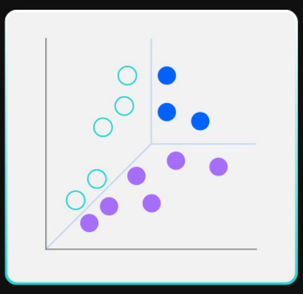


...lost prediction accuracy when used on **experienced** applicants.

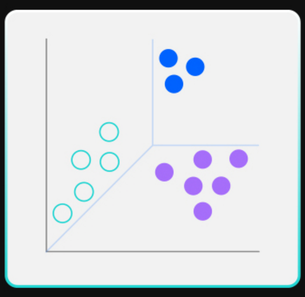
A mortgage loan risk prediction model trained on houses **under $1 million...**

...lost accuracy when used on houses with **higher prices.**

Risk:
When a model encounters data it was not trained to handle, incorrect predictions can result.



A credit risk prediction model trained on a certain range of salaries...



...will lose accuracy when distribution changes because average incomes have changed over time.

3 steps to correct AI model drift

1. Detect drift scenarios and magnitude through an AI model that compares production and training data and predictions.
2. Generate a drift alert when custom drift threshold is exceeded.
3. Simplify model re-training.

Learn more
about model drift at ibm.biz/model-drift.

Reduce model drift
on a unified data and AI platform: IBM Cloud Pak® for Data.

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