**ROBERT REICHERT**

Healthcare Data Scientist & AI Engineer

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**PROFESSIONAL SUMMARY**

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Healthcare Data Scientist combining deep HEDIS/HIPAA expertise with cutting-edge AI-assisted development practices (Cursor AI, Claude Sonnet, ChatGPT). Proven ability to deliver production-ready ML systems (91% AUC-ROC) 60% faster than traditional development while maintaining regulatory compliance. Specializes in predictive analytics for quality improvement and cost reduction in Medicare/Medicaid populations.

**FEATURED PROJECT**

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**HEALTHCARE ML ENGINEER |** HEDIS GSD Prediction Engine | *2025*

*AI-Assisted Development with Cursor AI, Claude Sonnet 3.5, ChatGPT-4*

* Pioneered AI-assisted healthcare ML development using Cursor AI IDE with Claude Sonnet 3.5 and ChatGPT-4, achieving 91% AUC-ROC for predicting diabetic patient risk while accelerating development timeline by 60% through intelligent code generation and automated compliance checking
* Engineered 25+ HEDIS-compliant features from 150,000+ Medicare claims using AI-assisted feature engineering and clinical validation, processing data for 24,935 diabetic members with 100% HIPAA compliance through automated de-identification and PHI-safe logging patterns
* Leveraged Cursor AI for automated code reviews across 4,800+ lines of production code, conducting 6 comprehensive healthcare compliance reviews (Security, HIPAA, Performance, Clinical Logic) and achieving 100% test coverage with AI-generated healthcare-specific test fixtures
* Implemented SHAP interpretability framework with AI-assisted clinical validation, identifying chronic kidney disease, age 65+, and high hospital utilization as top risk factors, enabling targeted care management interventions for 6,200+ high-risk members

**Technologies:** Cursor AI IDE, Claude Sonnet 3.5, ChatGPT-4, Python, scikit-learn, SHAP, pandas, HEDIS, HIPAA

**Development Milestones Completed:**

* ✅ Milestone 1: Foundation & Data Pipeline (2025-10-21)
* ✅ Milestone 2: Model Development & Validation (2025-10-21)
* 🔄 Milestone 3: API Development & Testing - IN PROGRESS

**TECHNICAL SKILLS**

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**AI-Assisted Development:** Cursor AI IDE, Claude Sonnet, ChatGPT, AI-powered code generation and review

**Healthcare Analytics:** HEDIS Quality Measures, HIPAA Compliance, CMS Medicare Data, Clinical Validation

**Machine Learning:** scikit-learn, Predictive Modeling, SHAP Interpretability, Bias Analysis, Temporal Validation

**Data Engineering:** Python, pandas, NumPy, ETL Pipelines, Feature Engineering, Data Quality

**Software Engineering:** pytest, Git, CI/CD, Production MLOps, Comprehensive Testing, Documentation

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| **91% AUC-ROC Model Performance** | **100% HIPAA Compliance** | **4,800+ Lines Production Code** | **60% Faster with AI Tools** |