MEDICAL NER: HEALTHCARE INDUSTRY

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01

BUSINESS OPPORTUNITY

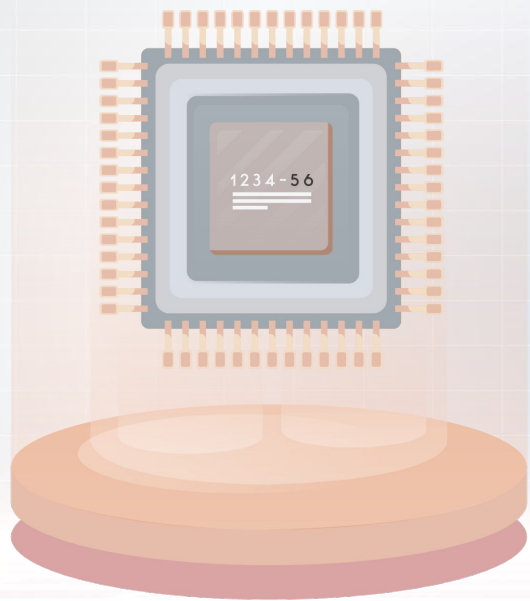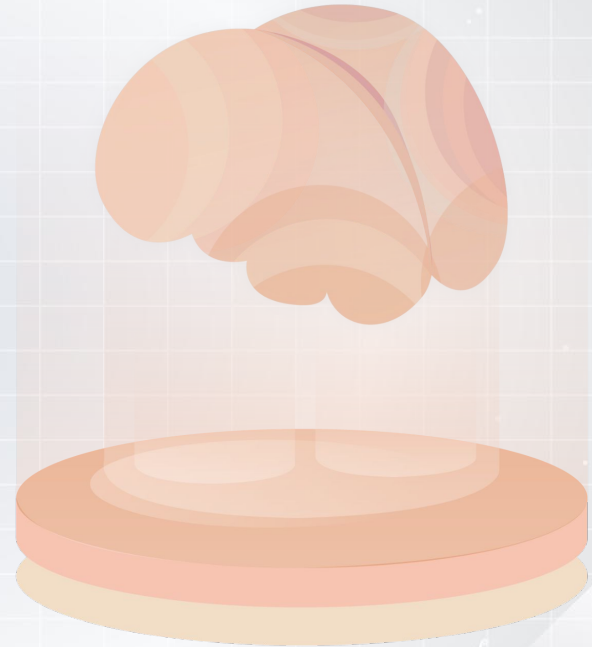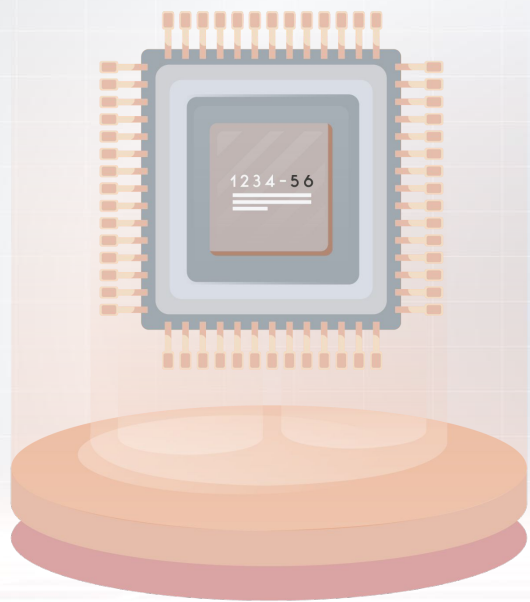- Easier access to patient histories for doctors.

- Better categorized storage and tracking of patient medical data.

- Smoother doctor transitions through accessible patient histories.

- Enhancing medical Q&A systems with accurate knowledge base retrieval.

- Improving clinical decision support via personalized treatment recommendations.

02

BUSINESS STRATEGY

PROJECT FOCUS

To develop and commercialize a specialized GenAI solution

TARGET MARKET

Healthcare providers, hospitals, EHR companies

VALUE PROPOSITION

Streamline access, better data tracking, smoother transitions, enhanced medical Q&A.
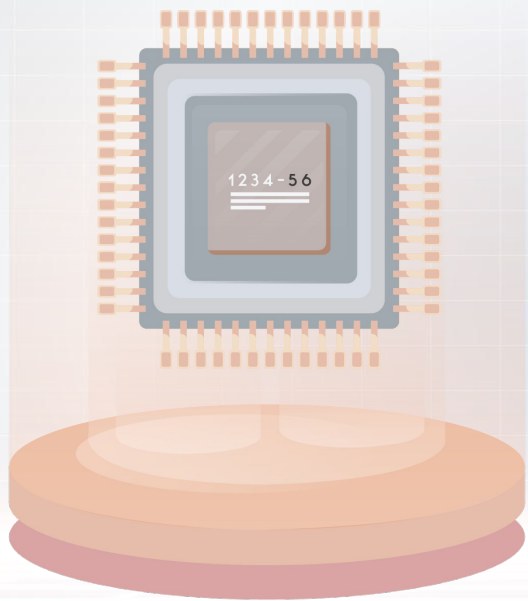
INTEGRATION & DEPLOYMENT

Collaborate with EHR providers

PRIVACY & SECURITY

Robust HIPAA-compliant measures

MARKETING & PARTNERSHIP

Leverage healthcare associations, conferences, and influencers

03
OPTIMIZATION & PERFORMANCE

Optimizing AI/ML Models through Fine-Tuning

- Data Preparation

- Data Cleaning

- Fine-Tuning Process Optimization
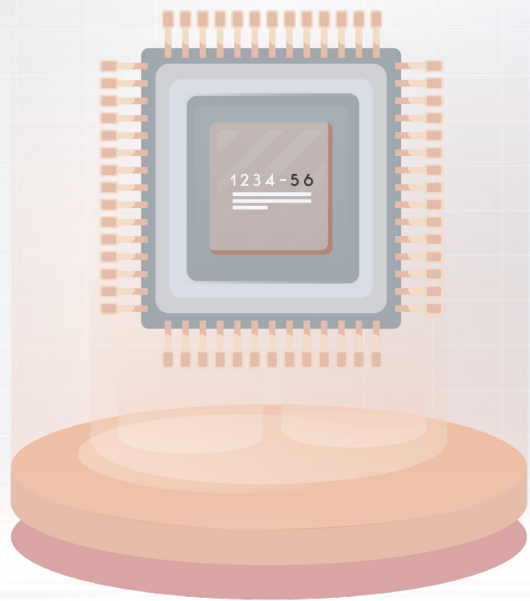
- Techniques Used

- Libraries Used

capella

Strategies for Measuring and Enhancing Model Performance

- Monitoring Fine-Tune Progress
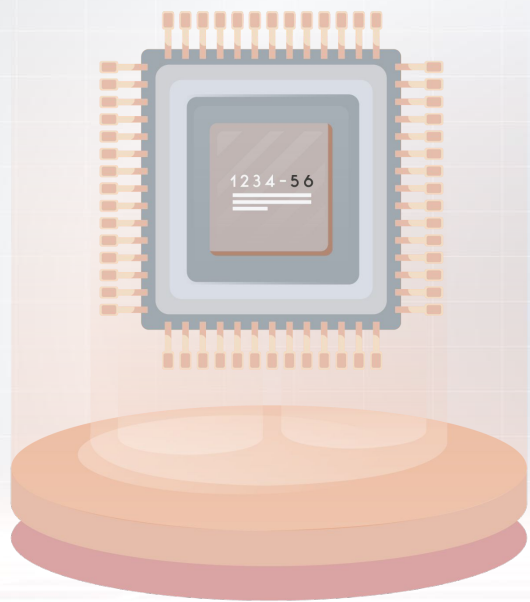
- Performance Metrics

- Inference and Model Testing

04

BIAS MITIGATION

- Diverse Datasets

- Regular Audits and Bias Identification

- Interdisciplinary Teams

- Continuous Refinement
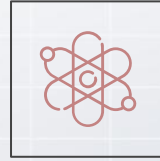
- Bias Governance Council

05
POTENTIAL CHALLENGES

DATA QUALITY & AVAILABILITY

Accuracy of the model highly relies on the quality and diversity of training data

REGULATORY COMPLIANCE

Healthcare industry is subject to strict regulatory requirements, such as HIPAA

MODEL INTERPRETABILITY

Deep learning models like GPT-3.5 are perceived as "black boxes".

THANK YOU!