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AI-POWERED PATIENT DATA EXTRACTION FOR COMMUNITY CARE

Gemini 1.5 pipeline aligned to OASIS guidelines

Challenge

A healthcare technology provider — delivering software, analytics, and services to home health, hospitals, specialty providers, and state programs — needed a better way to extract structured patient information from medical reports. Pulling multiple data elements from each report for downstream access and information transfer was complex, and every extraction had to follow strict OASIS guidelines for how data should be structured and displayed. Manual handling slowed processing, introduced errors, and limited compliance confidence.

Approach

Built a data extraction pipeline using Python, the Gemini 1.5 language model, and Google Cloud Platform to process patient information from medical reports efficiently.

Engineered medical report parsing logic that captures multiple data elements per report and prepares them for downstream access and information transfer.

Embedded OASIS guideline compliance directly into the pipeline, ensuring every output is structured and displayed in line with regulatory requirements.

Deployed the solution on GCP for scalable, governed processing across the client's healthcare and community care customer base.

Outcomes Delivered

Streamlined extraction and storage of critical patient information, reducing manual effort and accelerating access for downstream care workflows.

Improved accuracy and regulatory alignment with OASIS guidelines, strengthening compliance confidence across medical report processing.

Enabled more efficient service delivery to healthcare clients, supporting improved patient care across home health, hospitals, and state programs.

Closing

Veltris combined applied generative AI, healthcare data governance, and GCP engineering to give a community care technology provider a compliant patient data extraction pipeline — turning manual report handling into structured, OASIS-aligned information at scale.

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