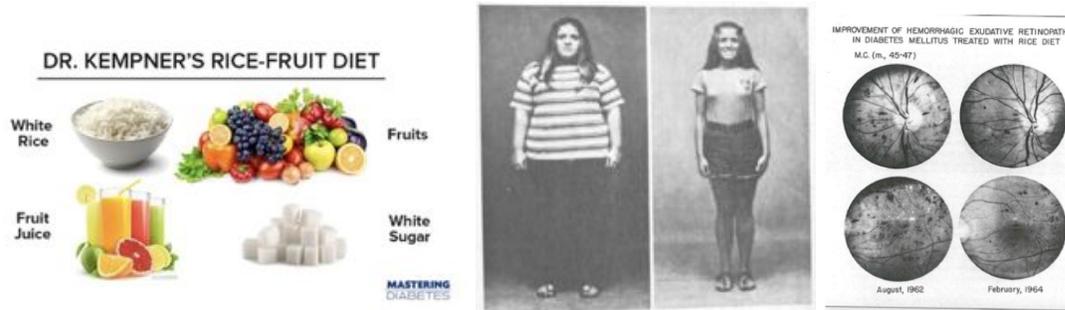


analysis of tens of thousands of files shall give insights as to why Kempner's rice diet has been so successful.



Besides acting as hypertension treatment, Kempner's strict diet led to positive effects on the overall health of his patients such as weight loss, improvements in diabetic retinopathy and increased lung capacity

A study including 18,000 persons on a defined, dietary regimen for months, will never again be performed. We believe that Kempner's data could contribute to the still unanswered question: "Why does the blood pressure go up?" Your contributions in this project are thus highly relevant to cardiovascular health.

What you will do

- Identify key attributes from handwritten paper sheets
- Identify and test existing OCR solutions
- Plan, design and implement a deep learning based OCR tool
- Implement UIs and Annotation tools to generate labeled training data
- Develop means to measure model uncertainty and include human feedback
- Identify and conduct statistical tests based on the extracted data
- Present your work to researchers and medical professionals

What you will learn

- The fascinating history of Dr. Kempner's Rice Diet
- How to plan and conduct a complex machine learning (ML) project on digital health data
- How to leverage user-centered design principles to design interactive ML pipelines
- How ML works in the field and how to overcome its challenges
- Development processes in a team with outside collaborators

What you should bring with you

- Software engineering skills
- Hands-on experience in ML technologies and an interest in automated image processing
- Project management and soft skills
- High motivation and commitment
- Enthusiasm for working alongside medical researchers and professionals