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- **Machine Learning**

- UCI Repository: Medium Data
- Explanation-based Learning
- Naïve Bayes
- Personalization
- Recommendation Systems
- Text Classification
- Contrast Sets
- Medical Informatics
- Deep Learning
- Explainable AI (XAI)



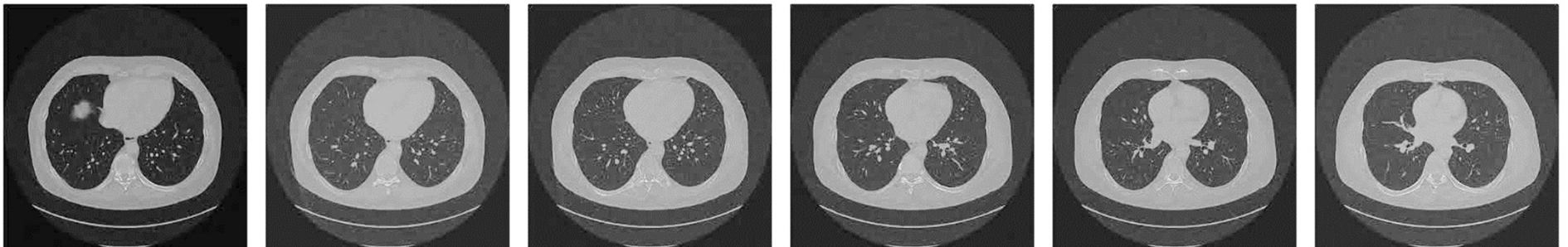
$s = -180 + 10\text{runs} + 5\text{hit} + 0.9\text{obp} + 15\text{hrs} + 14\text{rbi} - 0.8\text{ave} - 18\text{dbl} - 39\text{trpl}$

$s = -207 + 15\text{runs} + 0.8\text{hit} + 11\text{hr} + 11\text{rbi} + 0.33\text{ave} + 5\text{dbl}$

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1. Deep Learning on Big Data: 3D Radiology, fMRI

- Data Size
- Is ImageNet or AlexNet the right starting point?
- XAI



2. Scaling Contrast Sets to Gene Discover

Find x_1 & ... x_n

$$P(c \mid x_1 \& \dots \& x_n) > P(c)$$