Recommender Systems Machine Learning for the Web

a talk for Python Sevilla

\$> whoami



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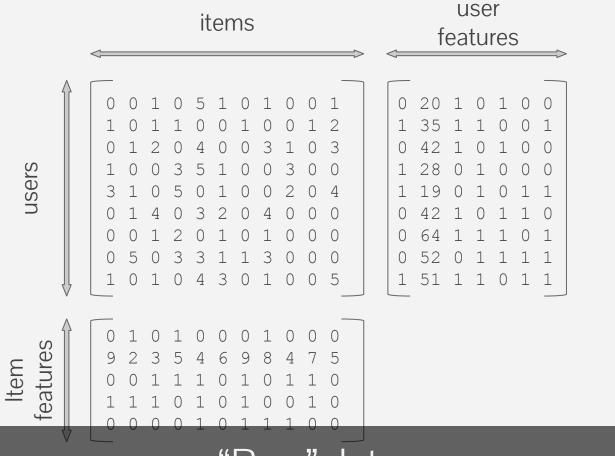
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MACHINE LEARNING CLASSIFICATION REGRESSION CLUSTERING RECOMMENDATION **GENERATION**



COLLABORATIVE FILTERING CONTENT-BASED FILTERING HYBRID SYSTEMS FAKE HYBRID SYSTEMS



"Raw" data

$$\widehat{r_{ui}} = f(q_u \cdot p_i + b_u + b_i)$$

$$q_u = \left(im_1^u, im_2^u, im_3^u, ..., ex_1^u, ex_2^u, ex_3^u, ...\right)$$

$$p_i = \left(im_1^i, im_2^i, im_3^i, ..., ex_1^i, ex_2^i, ex_3^i, ...\right)$$

Latent factor models



Maciej Kula (Lyst)'s LightFM

SHOW ME THE CODE



QUESTIONS PLEASE

A MILLION THANKS FOR BEING HERE TODAY