Project Luther: learning linear regression hands-on

· Client: Studio that specializes in action movies

· Chent's question: Given my movies budget, director, & top 3 actors, can we predict the movies success opening weekend?

· Data Sample: Action movies from The Numbers (website) that have info for budget, director, actors

· My Model: Ste Unear Regression (no polynomials)

. The Features:

Lata Variage Prominaning

1 Budget 2) Director Average Dow. Gloss of past movies (through (scos)

3 Average of Top 3 Actors! Average Donustic Gross of Past Movies (through 2008)

· The Outcome(s):

Budget Base: ± 42m dollars - Errors:

Bax+budget: ±30m dollars

Bark+budget+Jirector+ actors: ±28 m dollars

- Some outliers: The Dark Knight / Fam Chris Nolan

- Effect of Factors:

7 \$1 m budget - DT\$ 770K Obening wknd Jom grow

1 \$1 m director -> 1\$110 k opening wend domginss

T \$1 m actors -> T \$ 740k opening wend dom gross

. Takeanay (1):

- Actors have stronger effect man Jirector Chosen

- The Dark Knight did really well