

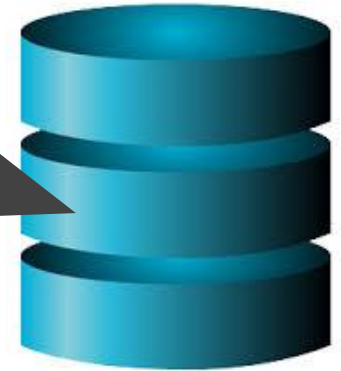
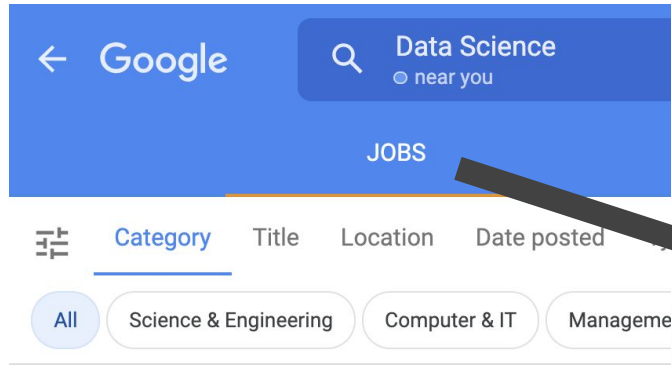
# Job & Resume Salary Predictor

Jack Reuben Bibi  
GA Capstone Project  
May, 2019

*“How much am I worth?”*

*“So, what kind of salary are you looking for?”*

# Data Acquisition



# Data Acquisition

- Title
- Company Name
- Job Posting
- Location
- Estimated Salary

**glassdoor**

6,000  
3,000

# Data Cleaning

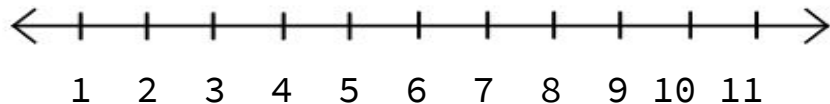
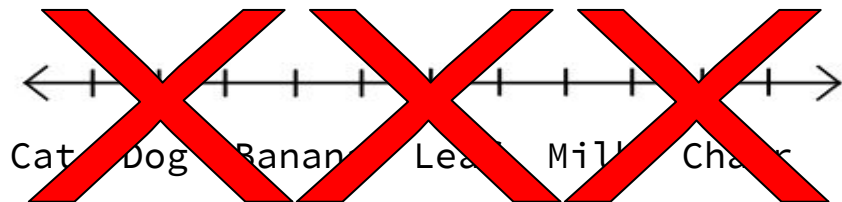
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 Glassdoor

**\$117.5k** per year

Data Scientist

Based on local employers

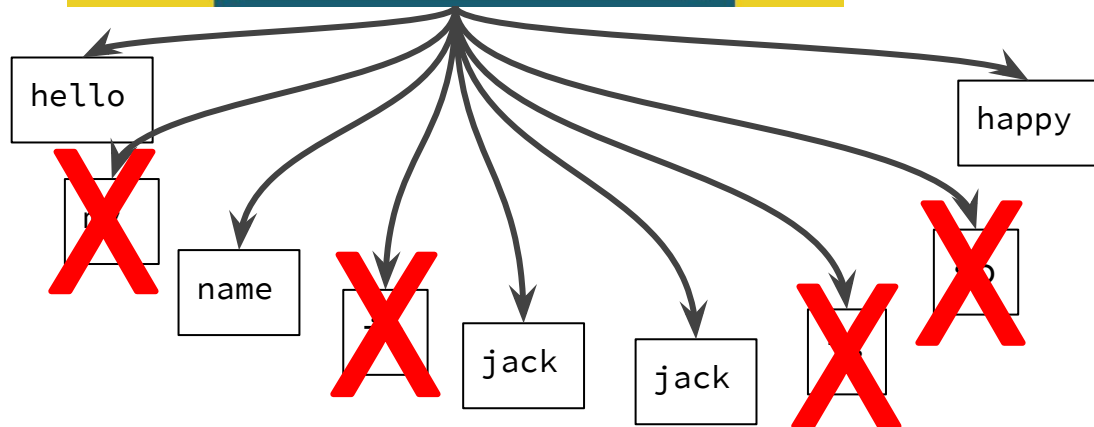


# Data Cleaning

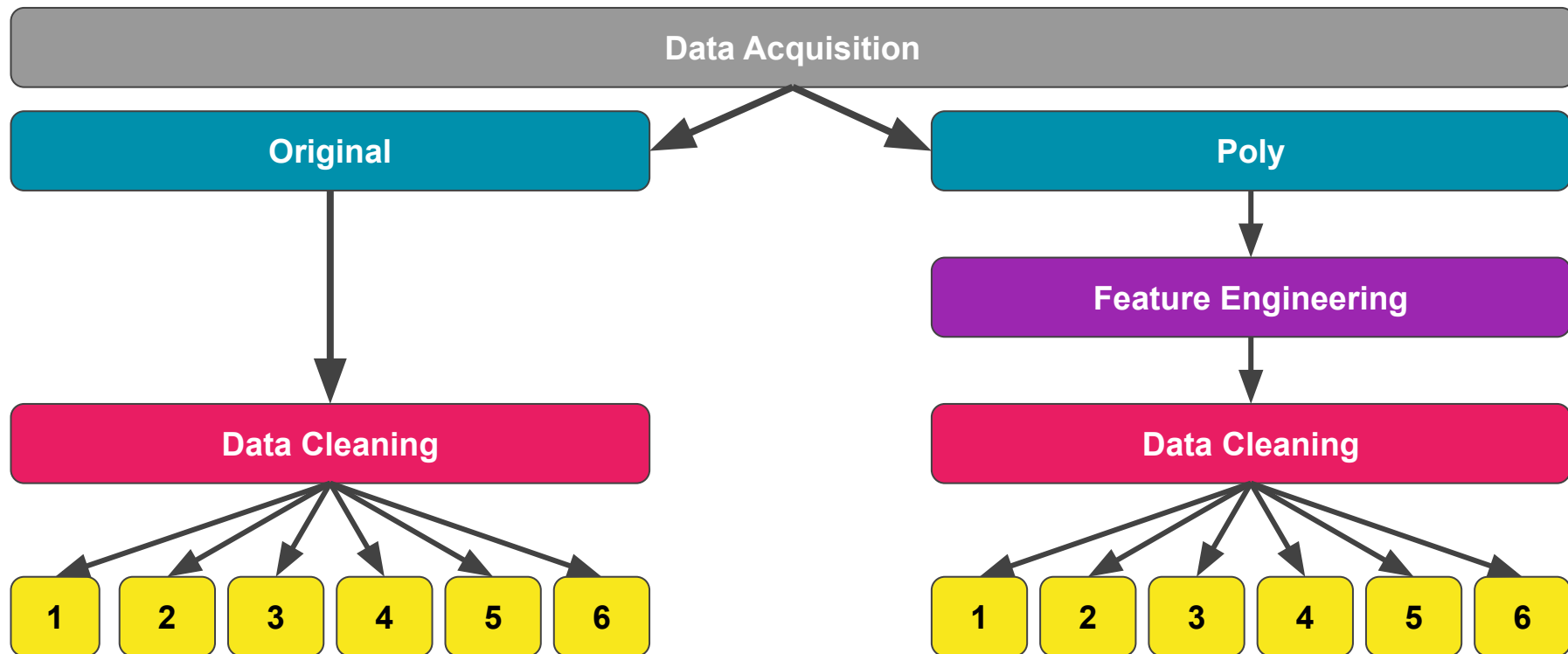
Hello, my name  
is Jack. Jack  
is so happy.



hello	name	jack	happy
1	1	2	1



# Statistical Modeling



# Average Error for each model

Compared to Glassdoor's range of +/- \$32,214

ORIGINAL		
1	Linear Regression	\$30,595
2	Lasso	\$30,458
3	Ridge	\$30,560
4	Random Forest	\$19,290
5	Gradient Boost	\$18,379
6	Neural Network	\$28,736

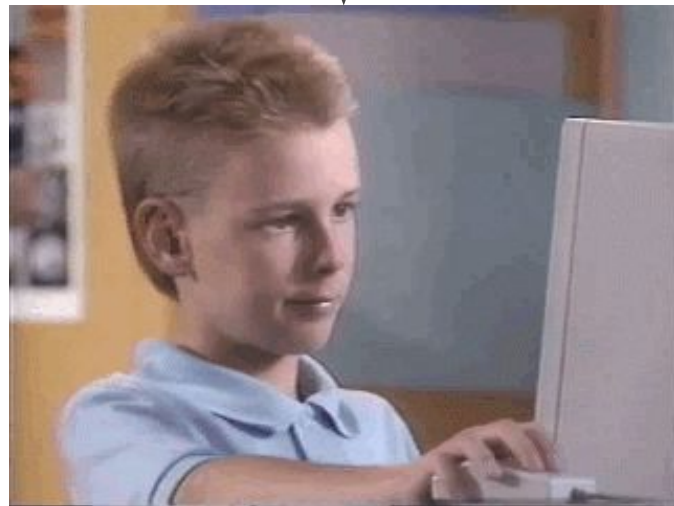
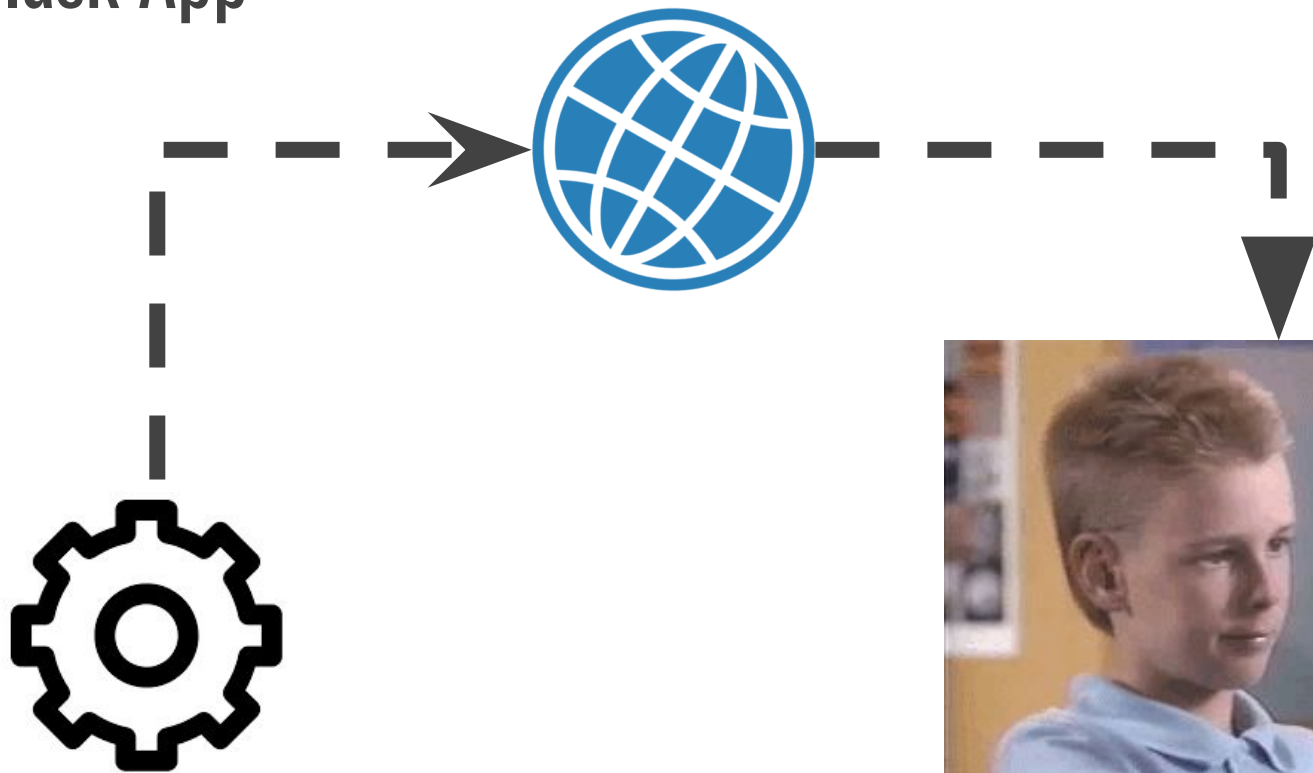
# Average Error for each model

Compared to Glassdoor's range of +/- \$32,214

Poly		
1	Linear Regression	\$25,390
2	Lasso	\$27,704
3	Ridge	\$24,862
4	Random Forest	\$18,057
5	Gradient Boost	\$18,033
6	Neural Network	\$15,194



# Flask App



Your salary is worth between  
**\$70,849 - \$109,023**  
 With an average of  
**\$89,936**

View

#### Your salary throughout all models

	Between Estimated Salary		
Linear Regression	\$68,376	\$129,650	\$99,013
Lasso	\$68,732	\$130,762	\$99,747
Ridge	\$68,539	\$131,367	\$99,849
Random Forest	\$70,849	\$109,023	\$89,936
Gradient Boost	\$79,767	\$111,210	\$95,479
Linear Regression Poly	\$68,376	\$129,650	\$99,013
Lasso Poly	\$68,732	\$130,762	\$99,747
Ridge Poly	\$68,539	\$131,367	\$99,849
Random Forest Poly	\$70,849	\$109,023	\$89,936
Gradient Boost Poly	\$79,767	\$111,210	\$95,479

# Conclusion & Next Steps

# Conclusion

— — —

- Glassdoor
  - \$32,314
- Original
  - \$26,351
  - **18%** Improvement
- Poly
  - \$21,540
  - **33%** Improvement

# Next Steps

- More Job Types
- Adding More Suggestions:
  - Job Title
  - Words
  - Best jobs for you
  - Skills to acquire

**Thank You!**

**Questions?**

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