Win Prediction Analytics

for IT Consulting Company Project Bids



Outline

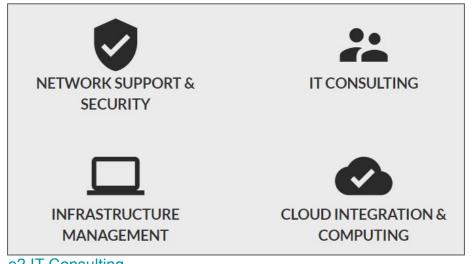
- Background & Motivation
- Dataset Description
- Objectives
- Outlook



Background

Bidding for Contracts

- Contractors submit competitive proposals to do work
 - e.g., construction projects
- IT companies make bids for network services







Motivation

- Competitive Bidding
 - More bids won -> more potential profit -> more success
 - o How to increase chances of winning a proposal?
 - Learning from past bidding data
 - What works?
 - What doesn't work?
- Data Analytics
 - Predict outcome (win/loss)





Dataset

8 Attributes (Independent Variables)

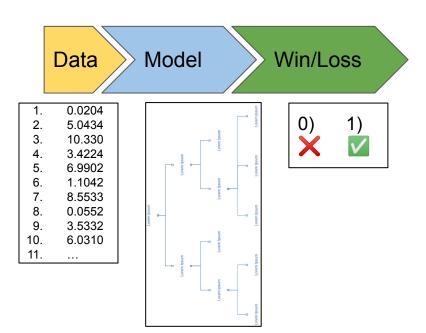
Outcome

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Client Category	Solution Type	Deal Date	Sector	Location	VP Name	Manager Name	Deal Cost	Deal Status Cod
reiecom	Solution /	Z7-IVIar-1Z	Sector 24	LO	Ekta Zutshi	Gopa milochana	150000.00	WOII
Telecom	Solution 7	25-Sep-12	Sector 24	L5	Ekta Zutshi	Gopa Trilochana	744705.88	Won
Internal	Solution 59	1-Aug-11	Sector 20	Others	Ekta Zutshi	Russell Dahlen	60000.00	Lost
Internal	Solution 59	28-Apr-11	Sector 20	Others	Ekta Zutshi	Russell Dahlen	60000.00	Lost
Internal	Solution 32	3-Jun-11	Sector 20	Others	Ekta Zutshi	Russell Dahlen	80882.35	Lost
Internal	Solution 32	24-May-11	Sector 20	Others	Ekta Zutshi	Russell Dahlen	80882.35	Lost
Internal	Solution 59	3-Nov-11	Sector 2	L10	Mervin Harwood	rahul sharma	526176.47	Won
Govt	Solution 7	17-Sep-12	Sector 13	L5	Sargar Deep Rao	Vidur Hukle	409705.88	Lost
Consumer Good	Solution 42	11-Apr-12	Sector 12	L10	Lilli Storrs	Md. Daud	1032352.94	Won
Internal	Solution 59	17-Nov-11	Sector 20	Others	Sargar Deep Rao	Hardeep Suksma	558823.53	Lost
2 International Bank	Solution 6	11-Feb-12	Sector 2	L10	Long Bergstrom	Luv Malhotra	316176.47	Won
Domestic Public Bank	Solution 59	30-Mar-12	Sector 2	L11	Mervin Harwood	Lino Batterton	929411.77	Won
Finance	Solution 59	26-Apr-12	Sector 2	L5	Mervin Harwood	Sang Ingle	2367647.06	Won
Manufacturing	Solution 59	20-Dec-11	Sector 15	L5	Ekta Zutshi	shafibul	8823529.41	Lost
Finance	Solution 20	22-Dec-11	Sector 17	L5	Long Bergstrom	Anand S. Pandey	122058.82	Lost
Services_based	Solution 32	23-Jan-12	Sector 23	L1	Ekta Zutshi	Molly Eakes	529411.77	Lost
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Objectives

- Create the best win prediction model
 - Compare at least 3-4 models
- Identify the key attributes
- Identify the top 5 bid managers
- Grading system for false predictions
 - Penalty for false positive/negative?
- Determine prediction accuracy





Outlook

- Application
 - Successful models can be used to improve IT company bids
- Insight
 - Identification of key attributes
 - Revise company procedures
 - Evaluate management success
 - Reallocation of resources/efforts/investments
- Continued Study
 - Apply same models to bidding data from other business areas (e.g., construction)



Thank you! Questions?

