

STA 160 Midterm Project: Narcissistic Personality Inventory Analysis

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Contents

1	Introduction	2
2	Data Cleaning	2
3	Method of Approach	2
4	Exploratory Data Analysis	3
4.1	Methodology	3
4.1.1	Response Distribution of Survey Questions	3
4.1.2	Score Against Demographics	3
4.1.3	Word Cloud	3
4.1.4	Contingency Table	3
4.1.5	Correlation	3
5	Two-Factor ANOVA Test	4
5.1	Methodology	4
5.2	Results	4
6	Multinomial Logistic Regression	5
6.1	Methodology	5
6.2	Results	5
7	LASSO Regression	6
7.1	Methodology	6
7.2	Results	6
8	Member Contributions	7
A	Code	8

1 Introduction

For this project, we chose to explore a dataset from the Open-Source Psychometrics Project, a collection of personality tests for psychological research. This dataset consists of metadata collected from 11,243 Narcissistic Personality Inventories (NPI), containing survey questions, answers, and a final "narcissism" score from a sample of respondents. It also contains demographic information on age and gender, resulting in about 11,000 rows in the dataset.

2 Data Cleaning

3 Method of Approach

4 Exploratory Data Analysis

4.1 Methodology

4.1.1 Response Distribution of Survey Questions

4.1.2 Score Against Demographics

4.1.3 Word Cloud

4.1.4 Contingency Table

4.1.5 Correlation

5 Two-Factor ANOVA Test

5.1 Methodology

5.2 Results

6 Multinomial Logistic Regression

6.1 Methodology

6.2 Results

7 LASSO Regression

7.1 Methodology

7.2 Results

8 Member Contributions

In this section, we explain the work each member contributed to the finished report:

A Code

insert code if needed in the report