Miguel Angel Mudoy

Presentation

Udacity

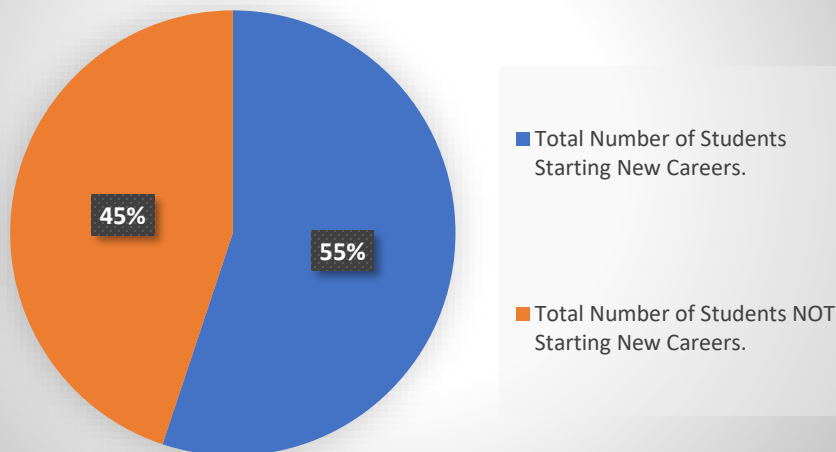**2018 Data Foundations Nanodegree Program**

Project 2

Important Note:

The following data is from Survey Respondents and is not from the entire Udacity Student population.

QUESTIONS:	SOLUTIONS:
1. How many students (WANT) to start a New Career?	Page 4.
2. How many students (DO NOT WANT) to start a New Career??	Page 5.
3. What is the (MEDIAN) of the total years of birth for all Survey Respondents?	Page 6.
4. What is the (STANDARD DEVIATION) based on the (AGE) of all Survey Respondents?	Page 7.

Students starting NEW career Vs. Students NOT starting new career (PART 1).

NEW CAREER BRIEF ANALYSIS: PART 1.

- 🟦 Total Number of Students Starting New Careers.
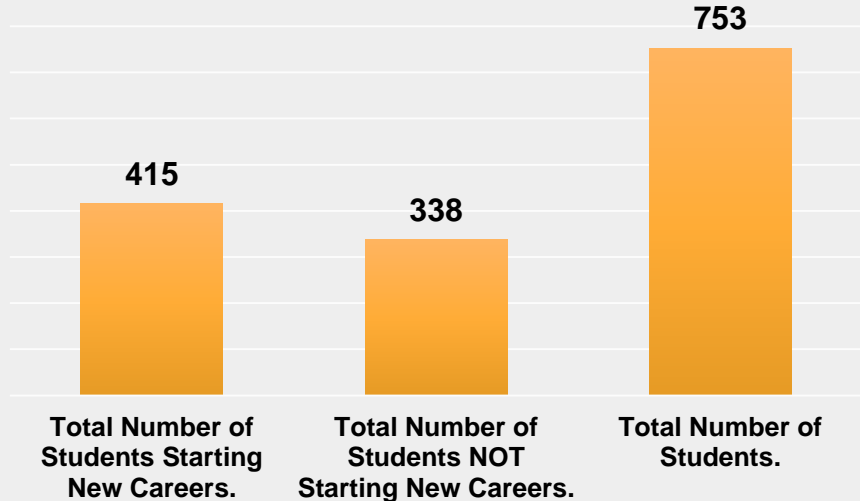- 🟧 Total Number of Students NOT Starting New Careers.

NEW CAREER DETAILED ANALYSIS:

Total number of students starting **NEW** career: **415.** Total number of students are **NOT** starting new career: **338.** (**77** more students are starting **NEW** career than students that are **NOT** starting new career).Total number of students: **753.**

55% of students are starting **NEW** career. **45%** of students are **NOT** starting new career: (**10%** more students starting **NEW** career than students that are **NOT** starting new career).

Students starting NEW career Vs. Students NOT starting new career (PART 2).

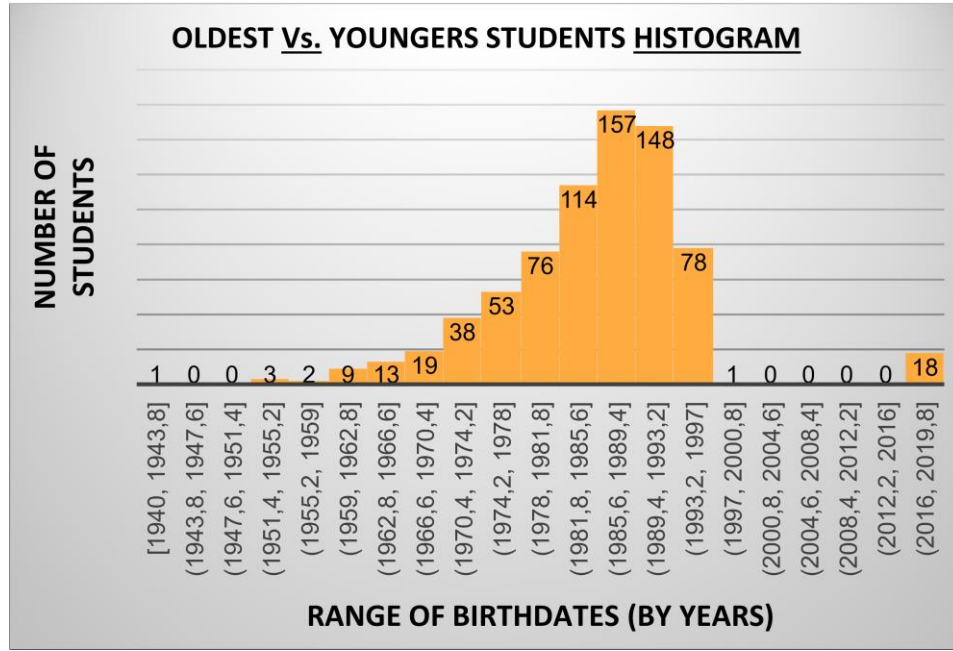## NEW CAREER BRIEF ANALYSIS: PART 2.

753

415

338

Total Number of Students Starting New Careers.

Total Number of Students NOT Starting New Careers.

Total Number of Students.

NEW CAREER DETAILED ANALYSIS:

Total number of students starting **NEW** career: **415.** Total number of students are **NOT** starting new career: **338.** (**77** more students are starting **NEW** career than students that are **NOT** starting new career).Total number of students: **753.**

Birthdate Analysis (PART 1): Oldest Vs. Younger Students.

OLDEST Vs. YOUNGERS STUDENTS HISTOGRAM

NUMBER OF STUDENTS

Values (left to right): 1, 0, 0, 3, 2, 9, 13, 19, 38, 53, 76, 114, 157, 148, 78, 1, 0, 0, 0, 0, 18

Ranges (by years): [1940, 1943,8], (1943,8, 1947,6], (1947,6, 1951,4], (1951,4, 1955,2], (1955,2, 1959], (1959, 1962,8], (1962,8, 1966,6], (1966,6, 1970,4], (1970,4, 1974,2], (1974,2, 1978], (1978, 1981,8], (1981,8, 1985,6], (1985,6, 1989,4], (1989,4, 1993,2], (1993,2, 1997], (1997, 2000,8], (2000,8, 2004,6], (2004,6, 2008,4], (2008,4, 2012,2], (2012,2, 2016], (2016, 2019,8]

RANGE OF BIRTHDATES (BY YEARS)
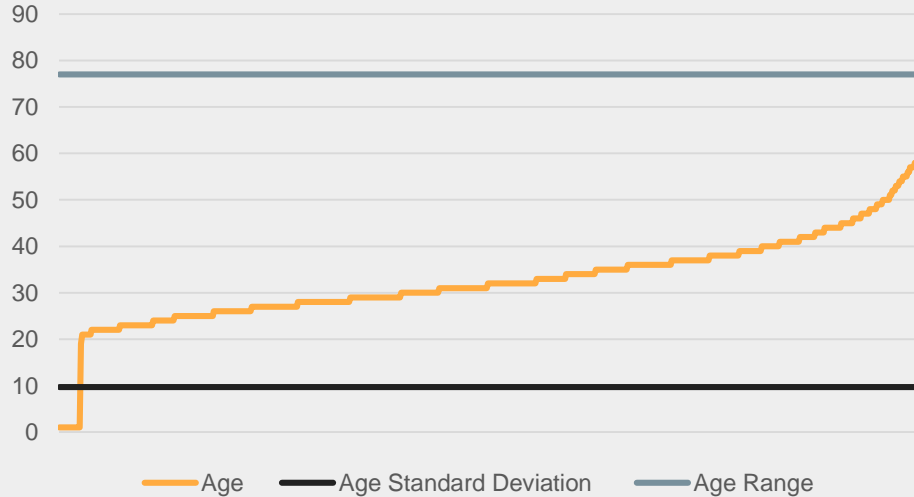
BIRTHDATE DETAILED ANALYSIS:

(MEAN) The expected of the age of those survey respondents is **32.61643836**

(MODE) The most of the age of those survey respondents is **28.**

The **(MEDIAN)** of the total years of birth by **730** survey respondents is **1986**. This implies that there must be some outliers in the data which affected the mean since the mean is very different from the median and the mode.

Birthdate Analysis (PART 2) AGE: Standard Deviation and Range.

AGE: STANDARD DEVIATION and RANGE BRIEF ANALYSIS.

Legend: Age — Age Standard Deviation — Age Range

BIRTHDATE DETAILED ANALYSIS:

The **STANDARD DEVIATION** based on the **AGE** of the survey respondents is **9.668483066**

MIN and MAX RANGE: Did you know that the one and only oldest student is **78** years of age, against **18** students which are **1** year of age.

THEREFORE, the **RANGE** based on the **AGE** of the survey respondents is **77**, which shows that because it is a large range value, clearly indicates a greater dispersión in the age data.

Thank you for your attention.