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Health Data Management And Knowledge Discovery Harvard Case Solution & Analysis

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Computer Animator President Judge Financer
Meteorologist Athletic Trainer Physiotherapist Actor
Mechanic **Chemist** Plumber **Doctor** Counsellor
News Anchor Painter Astronaut Athlete
Farmer Tailor Sociologist Police Officer **Legislator** Professor
Coach **Teacher** Composer Mathematician **Director**
Programmer Comedian Broadcaster Designer Translator
Photographer **Entrepreneur** Chiropractor Hairstylist
Pharmacist Welder **Undecided** Statistician
Military Psychologist Biologist **Chef** Veterinarian
Dentist Contractor Curator
Producer **Accountant** Economist
Musician Electrician Paramedic
Journalist Firefighter Lawyer **Librarian** Pilot
Carpenter Wizard Nutritionist

Motivation

- Relatable subject
- Interesting topic to analyze and present statistically
- Curiosity



Hypothesis

We expect the majority of students applying to post-secondary programs to be involved in the engineering and sciences field of studies.

Students that don't apply to post-secondary programs to get involved in retail or apprenticeship programs of sorts.



Facts

According to the results found on Statistics Canada
Top 5 major postsecondary enrollments by field of study (2011/2012)

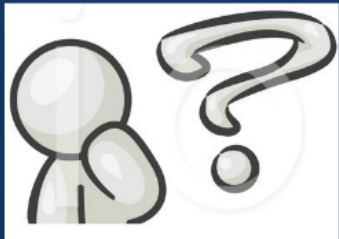
- ✕ Humanities
- ✕ Business, management and public administration
- ✕ Social and behavioural sciences, and law
- ✕ Health, parks, recreation and fitness
- ✕ Architecture, engineering and related technologies
- ✕ Other



Field of Study	Enrollments (2011/2012)
Humanities	1,198,000
Business, management and public administration	1,198,000
Social and behavioural sciences, and law	1,198,000
Health, parks, recreation and fitness	1,198,000
Architecture, engineering and related technologies	1,198,000
Other	1,198,000

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- 📌 Other



	2010/2011	2011/2012	2010/2011 to 2011/2012
	number	number	% change
Total	1,858,238	1,860,200	1.8
Personal improvement and leisure	25,074	25,245	0.7
Education	102,780	101,817	-1.2
Visual and performing arts, and communications technologies	84,188	84,021	0.0
Humanities	558,089	565,070	1.7
Social and behavioural sciences, and law	249,021	250,175	4.1
Business, management and public administration	343,575	350,415	2.0
Physical and life sciences, and technologies	98,097	101,709	2.7
Mathematical, computer and information sciences	88,072	82,177	-6.8
Architecture, engineering and related technologies	184,832	180,388	-3.1
Agriculture, natural resources and conservation	27,342	28,332	3.6
Health, parks, recreation and fitness	223,662	230,124	2.9
Personal, protective and transportation services	40,784	41,579	1.9
Other	180,272	158,708	-12.2

	2010/2011	2011/2012	2010/2011 to 2011/2012
	number		% change
Total	1,958,238	1,996,200	1.9
Personal improvement and leisure	25,074	25,245	0.7
Education	102,780	101,517	-1.2
Visual and performing arts, and communications technologies	84,186	84,951	0.9
Humanities	358,959	365,070	1.7
Social and behavioural sciences, and law	249,921	260,175	4.1
Business, management and public administration	343,575	350,415	2.0
Physical and life sciences, and technologies	98,997	101,709	2.7
Mathematics, computer and information sciences	58,071	60,177	3.6
Architecture, engineering and related technologies	184,632	190,398	3.1
Agriculture, natural resources and conservation	27,342	28,332	3.6
Health, parks, recreation and fitness	223,662	230,124	2.9
Personal, protective and transportation services	40,764	41,379	1.5
Other	160,272	156,708	-2.2

Methodology

Sampling Techniques

Population : Newtonbrook Students

Our sample was created through a stratified sampling technique; selecting the same proportion of students from each grade .

Sampling Technique



Survey Errors

- Incorrect lettering
- 'Law' was not an option for a 'preferred field of study'
- Didn't properly state to circle only one answer on certain multiple questions
- Some questions were left unanswered possibly due to undecided future



Problems



Sampling Technique Problems

- Surveyed only one college course due to time restraints
- Unable to survey entire class due to absent students
- Only surveyed students in semester 2 English classes

Conclusion

Using our data, a positive non-linear regression exists between the variables age and certainty.

Based on our analysis, our hypothesis statement does hold true; there were more students planning on going in fields of engineering and sciences than any other field of study.

