

Minette Farrell

Data Engineering Student

Diligent student with a passion for science, mathematics and psychology and a love for problem solving. An out of the box, creative and curious thinker who enjoys finding new ways to solve modern challenges in a sustainable way.

EDUCATION

LaRochele Girls; High School,
Paarl— National Senior Certificate — 2019

Awarded best cultural and academic student of the year
2019 Graduated fourth in my matric class

Average of 89.5%

8 Distinctions:

- English Home Language
- Afrikaans Huistaal
- Mathematics
- Physical Science
- Life Science
- Geography
- Music
- Life Orientation

Stellenbosch University,
Stellenbosch— Bachelors in Engineering - 2020 to present

*Studying BEng. Electrical and Electronic Engineering -
Data Engineering Specialization*

First year average: 79%

Second year average: 72%

Achieved distinctions in 16 subjects

Achieved a Dean's Merit in 9 subjects

Chosen as a class representative for

- Mathematical Statistics 214
- Mathematical Statistics 245
- Mathematical Statistics 246

CONTACT DETAILS

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Paarl, Western
Cape, 7646

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SKILLS

Adaptability
Analytical thinking
Communication
Creative thinking
Critical thinking
Driven
Focused
Problem solving skills
Time management skills
Strong work ethic

LANGUAGES

English (Fluent)
Afrikaans (Fluent)

PROGRAMMING LANGUAGES

C, R, Java, MatLab,
ARM, Python

INTERESTS

Dance
Hiking
Mathematics
Music
Neuro-Science
Philosophy
Psychology
Statistics

PROJECTS

Improving airplane safety — 2014

During my grade 7 year (2014), I participated at the International Science Fair for young scientists where I received a silver medal and won the overall category prize. For my project I did an engineering task that tested different ways to make the impact of airplane crashes less. This task helped me to change my way of thinking to be more scientific and accurate. It taught me to question things, rather than just accepting it.

The effect of cognitive lateralization on object recognition — 2018

During my grade 11 year (2018), I once again participated at the same International Science Fair. The aim of this investigation was to determine whether there are certain characteristics that could be singled out to have a distinct role in object recognition.

This task combined data analysis with behavioral psychology and artificial intelligence and is a perfect example of my three biggest passions: psychology, mathematical analysis of data and problem solving. During this project I discovered my love for data analysis. Since this was an extra-curricular project, I also had to learn how to manage my time and priorities.

Exploratory data analysis of the first wave of the covid-19 pandemic — 2020

I investigated three countries (Germany, Sweden and the Netherlands) with different strategies to combat the rise of infections and deaths from covid-19. Using exploratory data analysis as well as visual methods I found that the Netherlands' strategy worked the best and Sweden the worst for the first wave. I also predicted that Sweden might do better if there were more waves to follow.

Data Ethics involved with Covid-19 Tracking — 2020

I investigated the different laws and rights involved and violated regarding contract tracing and the Covid-19 tracking devices. The investigation was based on the importance of data ethics, the methods involved in contact tracing and the ethical concerns involved with each method.

ACCOMPLISHMENTS

Member of the Golden Key International Honour Society.

Awarded the best cultural and academic student of my matric class 2019

Among the top ten of my grade from grade 4 until matric.

In 2014 I competed in an international science fair where I received a silver medal and won the overall category of Aeronautical Engineering.

In 2018 I competed in the same international science fair and received a golden medal in the category of Psychology and Social Studies.

Awarded the best pianist at a provincial music competition, along with various other music awards for piano, drum kit and singing.

Chosen as a reserve to take part in an International Mathematics Olympiad in Hong Kong.

Participated at numerous national competitions including Vaulting, Irish dance and Gymnastics and received places among the top 3 at national level within all three disciplines.

I was a part of the choir management team that took part in the World Choir Games where we achieved two golden awards.