



STELLENBOSCH UNIVERSITY TECHPRENEURSHIP CENTRE

PRESENTS

DATA SCIENCE, MACHINE LEARNING & ENTREPRENEURSHIP AN IMMERSIVE INTRO TO DATA SCIENCE & MACHINE LEARNING FOR INDUSTRY

POWERED BY SU LAUNCHLAB AND THE SU SCHOOL FOR DATA SCIENCE & COMPUTATIONAL THINKING



THE COURSE

Are you interested in **Data Science & Machine Learning**? Do you want to master **coding in Python**? Are you interested in learning how Data Science & Machine Learning can **solve real-world business problems**? Are you looking for **practical experience**? If so, then read on!

SU LaunchLab, in partnership with the **SU School for Data Science and Computational Thinking**, has launched the **SU Techpreneurship Centre (SU TPC)**. The SU TPC offers courses which bridge the gap between technology and entrepreneurship, by providing candidates with both in-depth programming skills in data science and machine learning, and how to use these skills in industry. Many of our participants also do internships after the course - **90% of our participants landed interviews with our partner companies after taking our course.**

COURSE CURRICULUM & FORMAT

During a **4-week, full-time, immersive Bootcamp in the 2021 July/August SU winter holiday**, you will learn the content listed below, **taught by experts** from the SU LaunchLab and SU School for Data Science and Computational Thinking. The course is taught through interesting lectures, case studies and assignments. It will be possible to attend the course remotely.

The following topics are covered:

- **Understanding the "World of Data"**: what exactly is Data Science, Machine Learning (ML), AI, Big Data, and how do they all fit together
- **ML Techniques and Algorithms**: unsupervised learning, supervised learning, and an intro to deep learning and neural networks
- **ML in Python**: learn all the different tools and libraries in Python which can accelerate your ML models
- **Understanding and building a ML pipeline**: from data sourcing to building your own ML models from scratch
- How to effectively **approach a data-related problem**
- How to most **effectively interpret results** from your data and **communicate** these results
- Identifying **business use cases** for data science and ML through doing interesting case studies and projects
- Other **tech soft skills**: SCRUM, Agile, & Kanban
- Interesting **guest lectures** on ML & Data Science in industry

WHO CAN TAKE THE COURSE?

The programme is **open to anyone** to apply from **all academic levels** (not just SU students or graduates). The course is **coding-intensive**, thus we recommend that candidates understand programming fundamentals - but the language itself doesn't matter. **NO prior experience with Python or machine learning** is required - that's why we're here!

APPLYING, COSTS & MORE INFO

The course **runs during the SU winter semester break (13 July to 6 August 2021).**

Costs for the **4-week, full-time programme**:

- **SU participant** (SU students, staff, recent grads, etc.): **R10,000 excl.; R11,500 VAT incl.**
- **Non-SU participant**: **R20,000 excl.; R23,000 VAT incl.**

If you are interested in our awesome course, please [apply here](#). We **only have 30 spots available**, and will interview and admit candidates on a **rolling basis** - so apply as soon as possible. For more info, please reach out to Daniel Maloba at daniel@launchlab.co.za