



DATA SCIENCE HACKATHON

26-28 FEBRUARY 2021

NEMISA will be hosting a virtual Data Science Innovation Hackathon in the following Provinces:

North West - Mahikeng Digital Innovation Hub, **Northern Cape** – Sol Plaatje University, **KwaZulu Natal** – Innovate Durban, **Gauteng** – University of Johannesburg, **Western Cape** – OpenUp, **Eastern Cape** – The Cortex Hub, **Mpumalanga** – University of Mpumalanga, **Limpopo** – University of Limpopo and **Free State** – Mirae Robotics and Automation Solutions.

Data science is the art and science of extracting meaning out of data. The art of data science is in the way that tools to extract meaning from data are used. The variety of usage represent the variety of focus, mandate and context and therefore reveals different answers.

GOVERNMENT INNOVATION

This particular hackathon seeks to engage with government data to unlock insights that could inform policy decisions. The hackathon is a collaborative multi-stakeholder partnership between provincial governments, Universities, the youth, digital technology experts and mentors in partnership with data science enthusiasts.

THE MOTIVATIONS

Data is the new gold and the wealth of meaning from the data can only be exhausted by looking at it from various aspects using data science tools. A Data Science Innovation Hackathon will enable various teams with different interests to mine the data and reveal interesting trends that the provincial data provides. These meanings will provide evidence for national policy recommendations.

There is an increasing loss of jobs in the midst of high unemployment in South Africa as a result of the 4IR and more recently COVID. It is therefore necessary to recommend policy that is based on evidence (data). If we do not take such an evidence-based approach to innovation, we will be repeating the same mistakes over again. The environment today is rapidly changing and the same needs to apply to policy.

MASTER CLASSES (OPEN TO ALL PARTICIPANTS)

STORY TELLING USING DATA

Mr Adi Eyal | **OpenUp.org**

10:00 – 11:30

A 2-HOUR CRASH COURSE IN DATA SCIENCE USING PYTHON

Mrs. T Bokaba, Prof A Ade-Ibijola & Dr K Aruleba | **University of Johannesburg**

11:30 – 13:30

DESIGN THINKING

Mr S Mahlaba | **GoDigitalSA Foundation**

14:30 – 16:30

REGISTER YOUR TEAM

Click here to register a team to participate in the hackathon - <https://tinyurl.com/nemisadatahack2021>

PRIZES PER PROVINCE

Main winner - **R 15 000**
1st Runner up - **R 10 000**
2nd Runner up - **R 5000**

Special prize: **R100,000** towards the improvement of the overall winner solution (Prototype Development).

DIGITAL BADGES AND CERTIFICATES

A digital badge certificate for participation at all levels and for winning teams will be issued.

DATA BUNDLES

Data will be provided to those that need it.

