ADVANCED DATA SCIENCE PROGRAMME

Who We Are

200,000+ Alumni	**190+** **Countries** Students studying at Regenesys
1000+ Corporate clients	**100+** Faculty from 15 Countries
100+ Programmes	**Campuses** (Sandton, Lagos, Mumbai)

Our Clientele

Mercedes-Benz   Microsoft   DANONE   BMW

Standard Bank   SAMSUNG   BARCLAYS   intel

NEDBANK   ANGLO AMERICAN   sasol   Coca-Cola

momentum   LIBERTY   absa   MTN

Massmart + Walmart   THE PRESIDENCY

and many more..

Chairperson's Foreword
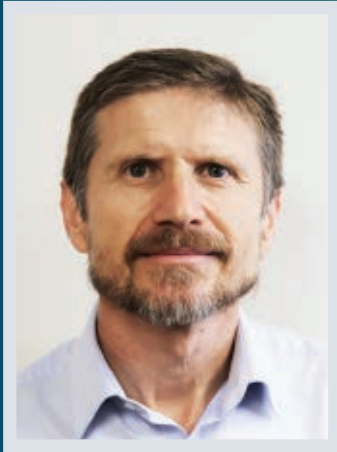
I am delighted to welcome you to Digital Regenesys at Regenesys Business School. The purpose of Regenesys is to help individuals awaken their potential and achieve their dreams.

New technologies, social media, and innovation have sparked a digital revolution that is rapidly changing the world. The digital revolution demands a new breed of professionals to succeed in the new digital world. To give you a competitive advantage, we have developed cutting-edge digital programmes in the areas of information technology and management. Our programmes are facilitated by leading experts, entrepreneurs, and academics from top local and international institutions.

Regenesys is a global business school with campuses in Johannesburg, Mumbai, and Lagos, delivering cutting-edge online and contact learning management programmes. Over the past 24 years, Regenesys has educated 200,000 students from 195 countries, and delivered corporate education programmes to 1000 reputable local and multinational companies. The majority of them are large multinationals such as Mercedes-Benz, Microsoft, Coca-Cola, Barclays, and Samsung, to name a few.

Regenesys alumni occupy top leadership positions in multinational corporations and government institutions all over the world, and form a very influential alumni network that supports its members with business opportunities across the world.

Get inspired, energised, and transform your career with programmes grounded in the realities of the new digital world.

I wish you success on your journey towards greatness.

Dr Marko Saravanja
Executive Chairperson
Regenesys Group

Advanced

Course Description

Upscale your career trajectory with our course in Data Science. Learn the real-world application of Data Science taught by industry experts and build a career in one of the most sought after fields.

Target Group

The course is designed for college students looking to start their careers as well as working class employees who want to change their career path.

Programme Duration

The course will have a duration of 2.5 months with 4 - 6 hour sessions conducted weekly. Each session is recorded and uploaded on the student portal, so students who missed the sessions can go through them.

Teaching Approach

At Regenesys we believe in a holistic teaching approach. Students will learn from faculty who are experts in their fields and have years of experience in the field.

Value For Money

The course is designed by doctorate faculties. Each student will have 1 year of unlimited access to the learning portal. Interactive sessions with industry experts will be conducted. And career counselling will be provided to students after the completion of the course.

Advanced

AI-ML Module

Machine Learning

- ▸ 2 Projects using machine learning models
- ▸ 10 Machine learning models for Regression, classification, clustering
- ▸ ML model evaluation metrics
    - MAE, RMSE, MSE, R square, Adjusted R square
    - Accuracy, confusion matrix, precision, recall, F1 score
- ▸ Train test dateset splitting
- ▸ K Fold CV
- ▸ Grid search CV
- ▸ Hyper parameter tuning
- ▸ Bias and variance
- ▸ Model over fitting & under fitting
- ▸ Regularization techniques
- ▸ Ensemble learning

Deep Learning

- ▸ 2 Projects using deep learning models
- ▸ Artificial neural network
- ▸ Convolutional neural network
- ▸ Recurrent neural network & LSTM

Web Development

- ▸ HTML, CSS basics
- ▸ Streamlit
- ▸ Flask

Duration

▸ 2.5 Months

Advanced

Add-On Modules

Natural Language Processing

▸ 1 Project on NLP
▸ Text preprocessing
  - Lower casing
  - Stopword removal
  - Regular expression
  - Tokenization, unigram, bigram, n-gram
  - Stemming & Lemmetization
  - POS tagging
  - Named entity recognition
  - Text processing with Spacy and NLTK
▸ Text vectorization and embedding
  - Bag of words
  - TF-ITDF
  - Word2Vec
  - Doc2Vec
  - Word embedding
▸ Deep learning and probabilistic models for NLP
▸ Text classification
▸ Text summerization
▸ Text generation

Computer Vision

▸ 1 Project on computer vision
▸ Image basics & processing
▸ Video basics & processing
▸ Object detection
▸ Object segmentation
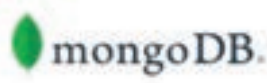▸ Object tracking

Time Series Analysis and Forecasting
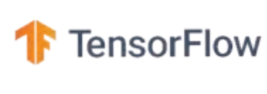
▸ Pandas for time series analysis
▸ Statistical Models for Time Series Forecasting
▸ Deep Learning LSTM model for Time Series Forecasting

Programme Highlights

Tools Covered

Not only restricted to

python	pandas	NumPy	matplotlib
seaborn	learn	Excel	TensorFlow
Spark	aws	SQL	mongoDB.

and many more..

Key Features

Course designed by doctorate faculty	1 year of unlimited access to the learning portal	Capstone projects
Interaction with industry experts	Course completion certificate	Career counselling (Profile Building, Assessment Tests, Mock Interviews)

Career Counselling

Job Profiles

- Data analysts by using R-Programming
- Tableau developer
- Big data hadoop developer

- Data visualisation by using Python
- Data scientist
- Python developer

Industries

IT Industries

Ecommerce & Retail

Telecommunications

BFSI

Contact Us

Head Office
South Africa Campus

165 West Street, Sandton
Johannesburg, South Africa.

📞 +27 (11) 669 5000

🌐 www.regenesys.net

Nigeria Campus

8th Floor, Churchgate Tower 2
PC 31, Victoria Island,
Lagos, Nigeria.

📞 +234 (1) 453 0959

🌐 www.nigeria.regenesys.net

India Campus

Proxima Building, Unit 1101,
11th Floor, Plot 19, Sector 30A, Vashi,
Navi Mumbai, India. 400705

📞 1800 212 9950

🌐 www.india.regenesys.net