

Postgraduate Certificate Data Cleansing





Postgraduate Certificate Data Cleansing

- » Modality: online
- » Duration: 6 months
- » Certificate: TECH Technological University
- » Dedication: 16h/week
- » Schedule: at your own pace
- » Exams: online

Website: www.techtitute.com/in/engineering/postgraduate-certificate/data-cleansing

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01

Introduction

Data cleaning is a fundamental process in economic statistics, since it ensures the quality of the information used for decision making. It consists of identifying and correcting the errors present in the data sets used. Moreover, it can be performed by means of statistical and data mining techniques, being a very complex process, especially when working with very large databases. For this reason, TECH has designed a program that allows students to maximize their knowledge on aspects such as Data Files, Integrity Control, Missing Value Treatment or Independence Tests, among others. All this, thanks to a 100% online format and with the most dynamic and practical multimedia materials in the academic market.



“

Enjoy the most complete and up-to-date content on Data Cleansing, thanks to the best online university in the world according to Forbes, thanks to TECH”

Data Cleansing is a critical process in economic statistics to ensure the quality of the data used in decision making. This technique helps to identify and correct errors and inconsistencies in the data, which can prevent wrong decisions and have a positive impact on the economy. Therefore, it must be a rigorous and continuous process in this area of statistics.

For this reason, TECH has designed a Postgraduate Certificate in Data Cleansing with the aim of providing students with the necessary skills to be able to perform their work as specialists, with the highest possible efficiency and quality. Therefore, throughout this qualification, aspects such as Multivariate Study, Treatment of Missing Values or Homoscedasticity Tests will be addressed.

And all this, from a 100% online format that allows students to organize their schedules and studies, combining them with their other work and obligations. In addition, this program has the most complete theoretical and practical materials on the market, which facilitates the student's study process and allows them to achieve their objectives quickly and efficiently.

This **Postgraduate Certificate in Data Cleansing** contains the most complete and up-to-date program on the market. The most important features include:

- ◆ The development of case studies presented by experts in Data Cleansing
- ◆ The graphic, schematic and eminently practical contents with which it is conceived provide sporting and practical information on those disciplines that are essential for professional practice
- ◆ Practical exercises where the self-assessment process can be carried out to improve learning
- ◆ Its special emphasis on innovative methodologies
- ◆ Theoretical lessons, questions to the expert, debate forums on controversial topics, and individual reflection assignments
- ◆ Content that is accessible from any fixed or portable device with an Internet connection



Become an expert in Economic Statistics in only 6 weeks and with total freedom to organize your schedule"



Reach your maximum potential as an Engineering professional and in one of the areas with the greatest future, thanks to TECH and the most innovative materials”

Access all the content on Data Cleansing from your Tablet, cell phone or computer.

Delve into the Detection, Treatment and Imputation of Missing Values, from the comfort of your home and at any time of the day.

The program's teaching staff includes professionals from sector who contribute their work experience to this educational program, as well as renowned specialists from leading societies and prestigious universities.

The multimedia content, developed with the latest educational technology, will provide the professional with situated and contextual learning, i.e., a simulated environment that will provide immersive education programmed to learn in real situations.

This program is designed around Problem-Based Learning, whereby the professional must try to solve the different professional practice situations that arise during the academic year. For this purpose, the student will be assisted by an innovative interactive video system created by renowned and experienced experts.



02

Objectives

The objectives of this Postgraduate Certificate in Data Cleansing are based on the student acquiring a precise up-to-date knowledge in this area. An up-to-date approach that will allow the student to work with the highest possible quality and efficiency. All this, thanks to TECH and a 100% online format that gives total freedom of organization and schedules to the student.




```
72 for (auto desc : a_resourcefactor)  
73 {  
74     TAXI(Database).registerResourcePath(desc.a_list,  
75     )  
76 }  
77 for (auto desc : a_resourcefactor)  
78 {  
79     a_resourcefactor.insert(100, 100)  
80 }  
81 a_resourcefactor.clear()
```

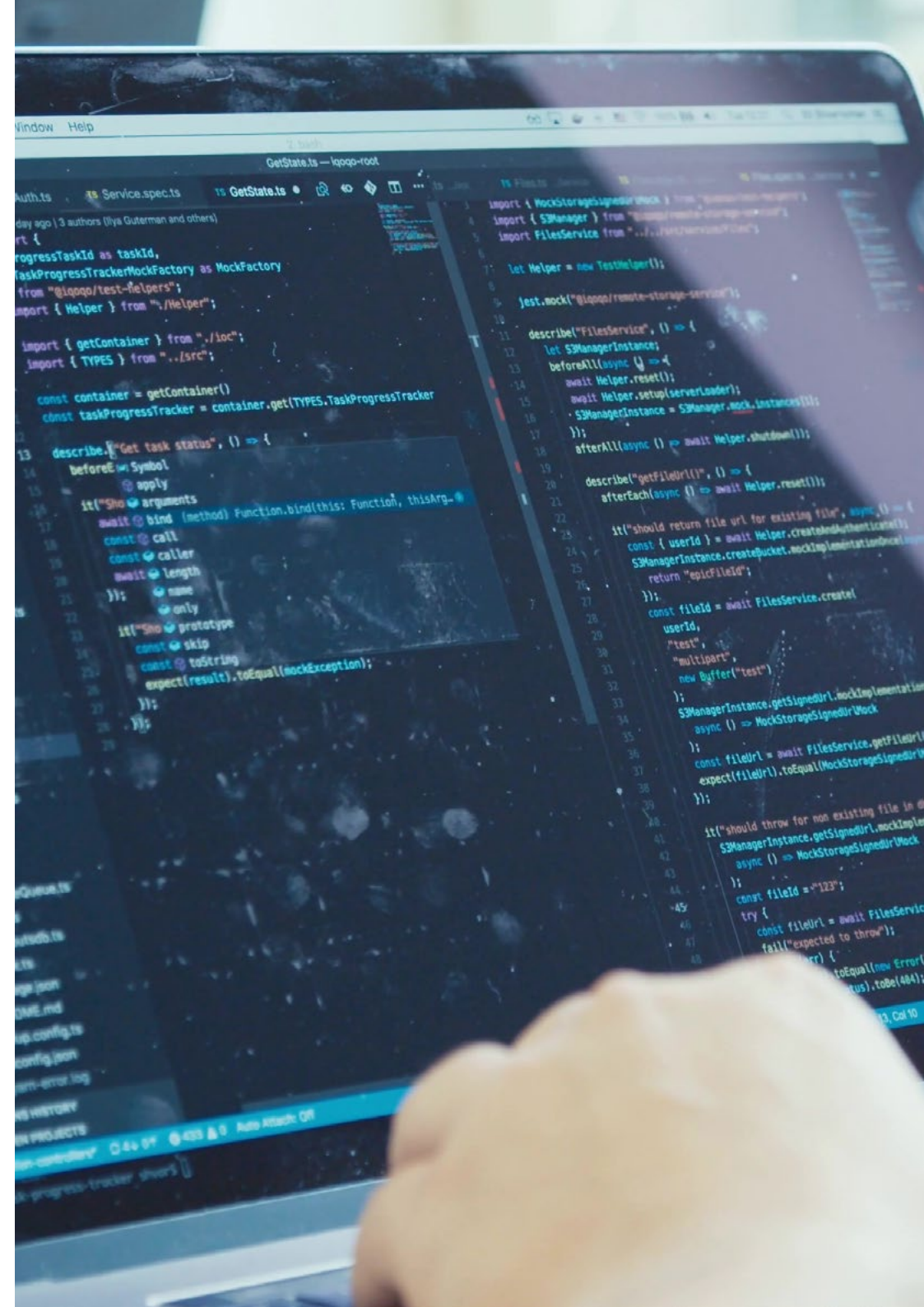
“

Delve into all the essential aspects of Homoscedasticity Testing for the Evaluation of Starting Hypotheses for Data Analysis, without leaving your home and without the need to travel”



General Objectives

- ◆ Apply their knowledge to their work or vocation in a professional manner and possess the skills that are usually demonstrated through the development and defense of arguments and problem solving within their area of study
- ◆ Perform basic operations related to information debugging
- ◆ Use the appropriate sources of information for each type of applied study
- ◆ Describe the main sources of aggregate output growth of an economy in the long run
- ◆ Calculate and use elasticities and cost-of-living indexes





Specific Objectives

- ◆ Define what Exploratory Data Analysis (EDA) is and what its objectives are
- ◆ Indicate the steps to be followed in conducting an EDA
- ◆ Select the appropriate graphical and numerical methods for examining data characteristics and/or relationships of interest
- ◆ Check if some hypotheses of interest are verified in the data (normality, linearity, homoscedasticity)
- ◆ Identify univariate, bivariate and multivariate outliers
- ◆ Understand the different types of missing data and assess their potential impact

“

Exceed your highest expectations, thanks to a unique program with the most practical multimedia materials on the academic market”

03

Structure and Content

The structure and all the didactic resources of this syllabus have been designed by the renowned professionals that conform TECH's team of experts in this area of Engineering. These specialists have used their extensive experience and their most advanced knowledge to create practical and completely up-to-date contents. All this, based on the most efficient teaching methodology, TECH's Relearning.



“

Enroll now and acquire new knowledge about Data Cleansing, thanks to the most innovative didactic materials”

Module 1. Data Analysis and Cleansing

- 1.1. Data files: Coding and Transformation
 - 1.1.1. Data Coding
 - 1.1.2. Data Transformation
- 1.2. Data Integrity Control: Univariate Study
 - 1.2.1. Models
 - 1.2.2. Properties
- 1.3. Data Integrity Control: Bivariate Study
 - 1.3.1. Models
 - 1.3.2. Properties
- 1.4. Data Integrity Control: Multivariate Study
 - 1.4.1. Models
 - 1.4.2. Properties
- 1.5. Missing Value Detection
 - 1.5.1. Missing Data Problems
- 1.6. Treatment of Missing Values
 - 1.6.1. Missing Value Analysis
- 1.7. Imputation of Missing Values
 - 1.7.1. Imputation of Missing Values in One-Dimensional Variables
 - 1.7.2. Multiple Imputation Methods
- 1.8. Normality Tests for the Assessment of Starting Assumptions for Data Analysis
 - 1.8.1. Types of Tests
 - 1.8.2. Examples
- 1.9. Homoscedasticity Tests for the Assessment of Starting Assumptions for Data Analysis
 - 1.9.1. Types of Tests
 - 1.9.2. Examples
- 1.10. Independence Tests for the Assessment of Starting Assumptions for Data Analysis
 - 1.10.1. Types of Tests
 - 1.10.2. Examples





“

Thanks to the most efficient teaching methodology on the market, TECH Relearning, you will be able to acquire new knowledge in a precise way and without spending too much time studying”

04

Methodology

This academic program offers students a different way of learning. Our methodology uses a cyclical learning approach: **Relearning**.

This teaching system is used, for example, in the most prestigious medical schools in the world, and major publications such as the **New England Journal of Medicine** have considered it to be one of the most effective.





“

Discover Relearning, a system that abandons conventional linear learning, to take you through cyclical teaching systems: a way of learning that has proven to be extremely effective, especially in subjects that require memorization"

Case Study to contextualize all content

Our program offers a revolutionary approach to developing skills and knowledge. Our goal is to strengthen skills in a changing, competitive, and highly demanding environment.

“

At TECH, you will experience a learning methodology that is shaking the foundations of traditional universities around the world”



You will have access to a learning system based on repetition, with natural and progressive teaching throughout the entire syllabus.



The student will learn to solve complex situations in real business environments through collaborative activities and real cases.

A learning method that is different and innovative

This TECH program is an intensive educational program, created from scratch, which presents the most demanding challenges and decisions in this field, both nationally and internationally. This methodology promotes personal and professional growth, representing a significant step towards success. The case method, a technique that lays the foundation for this content, ensures that the most current economic, social and professional reality is taken into account.

“*Our program prepares you to face new challenges in uncertain environments and achieve success in your career”*

The case method is the most widely used learning system in the best faculties in the world. The case method was developed in 1912 so that law students would not only learn the law based on theoretical content. It consisted of presenting students with real-life, complex situations for them to make informed decisions and value judgments on how to resolve them. In 1924, Harvard adopted it as a standard teaching method.

What should a professional do in a given situation? This is the question that you are presented with in the case method, an action-oriented learning method. Throughout the program, the studies will be presented with multiple real cases. They will have to combine all their knowledge and research, and argue and defend their ideas and decisions.

Relearning Methodology

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines 8 different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

In 2019, we obtained the best learning results of all online universities in the world.

At TECH, you will learn using a cutting-edge methodology designed to train the executives of the future. This method, at the forefront of international teaching, is called Relearning.

Our university is the only one in the world authorized to employ this successful method. In 2019, we managed to improve our students' overall satisfaction levels (teaching quality, quality of materials, course structure, objectives...) based on the best online university indicators.



In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

This methodology has trained more than 650,000 university graduates with unprecedented success in fields as diverse as biochemistry, genetics, surgery, international law, management skills, sports science, philosophy, law, engineering, journalism, history, and financial markets and instruments. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

Relearning will allow you to learn with less effort and better performance, involving you more in your training, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation for success.

From the latest scientific evidence in the field of neuroscience, not only do we know how to organize information, ideas, images and memories, but we know that the place and context where we have learned something is fundamental for us to be able to remember it and store it in the hippocampus, to retain it in our long-term memory.

In this way, and in what is called neurocognitive context-dependent e-learning, the different elements in our program are connected to the context where the individual carries out their professional activity.



This program offers the best educational material, prepared with professionals in mind:



Study Material

All teaching material is produced by the specialists who teach the course, specifically for the course, so that the teaching content is highly specific and precise.

These contents are then applied to the audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high quality pieces in each and every one of the materials that are made available to the student.



Classes

There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



Practising Skills and Abilities

They will carry out activities to develop specific skills and abilities in each subject area. Exercises and activities to acquire and develop the skills and abilities that a specialist needs to develop in the context of the globalization that we are experiencing.



Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.





Case Studies

Students will complete a selection of the best case studies chosen specifically for this program. Cases that are presented, analyzed, and supervised by the best specialists in the world.



Interactive Summaries

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".



Testing & Retesting

We periodically evaluate and re-evaluate students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



05

Certificate

The Postgraduate Certificate in Data Cleansing guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by TECH Technological University.





*Successfully complete this program
and receive your university qualification
without having to travel or fill out
laborious paperwork”*

This **Postgraduate Certificate in Data Cleansing** contains the most complete and up-to-date program on the market.

After the student has passed the assessments, they will receive their corresponding **Postgraduate Certificate** issued by **TECH Technological University** via tracked delivery*.

The certificate issued by **TECH Technological University** will reflect the qualification obtained in the Postgraduate Certificate, and meets the requirements commonly demanded by labor exchanges, competitive examinations, and professional career evaluation committees.

Title: **Postgraduate Certificate in Data Cleansing**

Official N° of hours: **150 h.**



*Apostille Convention. In the event that the student wishes to have their paper certificate issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.

future
health confidence people
education information tutors
guarantee accreditation teaching
institutions technology learning
community commitment
personalized service innovation
knowledge present quality
development lang
virtual classroom



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