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ANALYTICS

STATISTICS FOR DATA PROFESSIONALS BROCHURE

Train to be an Expert

SELF- PACED LEARNING PROGRAM OVERVIEW

WHY LEARN STATISTICS

Statistics gives you the ability to transform uncertainty into calculated confidence and raw numbers into measurable truths. In today's information-heavy economy, organizations no longer rely on intuition or gut feelings; they need rigorous methods to validate patterns, quantify risks, and predict future outcomes. This shift has made Statistical Analysis one of the most critical and high-leverage capabilities in the modern scientific and business landscape.

Learning Statistics equips you with the mathematical and logical mastery to collect, analyze, and interpret data with precision. You move beyond simple averages to mastering probability distributions, hypothesis testing, and regression models with confidence. By bridging the gap between random noise and significant trends, you turn complex variables into evidence-based conclusions that drive organizational success.

Beyond strong career opportunities, Statistics empowers you to challenge assumptions, navigate complexity, and deliver impact through objective proof. It is the foundational discipline of the data age that keeps you at the forefront of research and innovation, giving you the power not just to describe what is happening, but to explain why and shape the direction of successful initiatives.

REQUIREMENTS

Duration
2 months

Internship
NIL

Skill Level
Beginner to Master

•*Career growth begins the moment you decide to take yourself seriously*

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OUR CURRICULUM

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STATISTICS FOR DATA PROFESSIONALS

MODULE

Module 1 | INTRODUCTION TO STATISTICS AND DATA FOUNDATION

- What is Statistics
- Why statistics is essential for data professionals
- Types of data (nominal, ordinal, interval, ratio)
- Variables: independent and dependent
- Populations and samples
- Parameters and statistics
- Data collection methods
- Bias and sampling errors
- Practical introductory exercises

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Module 2

DESCRIPTIVE STATISTICS AND EXPLORATORY DATA UNDERSTANDING

- Measures of central tendency: mean, median, mode
- Measures of dispersion: variance, standard deviation, range, IQR
- Shapes of distributions: skewness and kurtosis
- Identifying outliers
- Comparing groups using summary statistics
- Hands-on descriptive analysis with Excel or Python
- Mini project: summarize a real dataset

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Module 3 | DATA VISUALIZATION FOR STATISTICAL INSIGHT

- Visualizing distributions: histograms, boxplots, density plots
- Visualizing relationships: scatterplots, line charts, bar charts
- Selecting appropriate visuals
- Avoiding misleading visuals
- Communicating insights clearly
- Visualization practice exercises

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Module 4 | PROBABILITY FOR DATA PROFESSIONALS

- Basic probability concepts
- Conditional probability
- Independent and dependent events
- Bayes rule explained simply
- Random variables
- Real-life distributions: normal, binomial, Poisson
- Practical probability exercises

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Module 5 | SAMPLING TECHNIQUES AND STUDY DESIGN

- Importance of sampling in data work
- Random sampling, stratified sampling, systematic sampling
- Sample size considerations in simple terms
- Confounding variables
- Hands-on sampling scenarios
- Case study: designing a small data study

Module 6

INFERENTIAL STATISTICS

- What is inference
- Confidence intervals
- Margin of error
- Hypothesis testing: step-by-step approach
- P values and significance levels
- Interpreting statistical tests in plain language

Common tests taught:
- One sample and two sample t tests
- Chi square test
- ANOVA basics
- Correlation tests

Industry use cases across HR, finance, product and health

Module 7 | CORRELATION AND REGRESSION ANALYSIS

Correlation
- Pearson and Spearman
- Interpreting correlation values
- Correlation vs causation

Regression
- Simple linear regression
- Introduction to multiple regression
- Understanding coefficients
- Regression assumptions simplified
- Forecasting basics

Mini project: build and interpret a regression model.

Module 8

EXPERIMENTAL DESIGN AND A B TESTING

- What is A B testing
- Designing controlled experiments
- Randomization principles
- Selecting the correct metrics
- Interpreting experiment results

Applications include marketing, product, pricing and customer experience. Hands-on A B testing case study.

Module 9

PRACTICAL STATISTICAL THINKING FOR REAL INDUSTRY WORK

- How companies use statistics for decisions
- Translating statistical results into clear insights
- Connecting statistics with BI, data science, product analytics and research
- Critiquing and improving analytical reports
- Building professional data presentations

CAPSTONE PROJECT:
COMPLETE STATISTICAL ANALYSIS

Learners will:
1. Define a business or research question
2. Explore and prepare data
3. Apply descriptive, inferential and regression techniques
4. Build statistical visuals
5. Write an insightful analytic report
6. Present findings professionally

Industries That Employ Statistician

- Technology and Software Companies
- Finance and Banking
- Healthcare and Pharmaceuticals
- E-commerce and Retail
- Telecommunications

- Manufacturing and Production
- Energy and Utilities
- Government and Public Sector
- Education and EdTech
- Media & Entertainment

WHY TRAIN WITH US?

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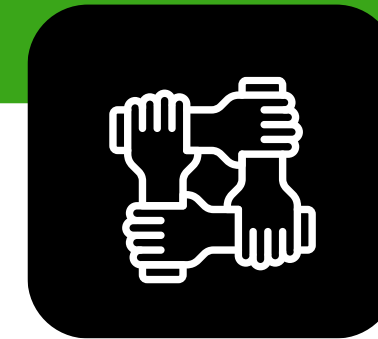
Practical, Job Ready Training

Industry-Standard Tools & Technologies

Expert Instructors With Real Experience

Personalized Mentorship & Support

Flexible and Beginner-Friendly

Certification That Boosts Your CV

Career Guidance & Portfolio Development

Supportive Community

Proven Success Stories

Affordable Quality Training

JOIN OUR NEXT COHORT

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2026 TRAINING CALENDER

January	February	March	April
10 Saturday	**14** Saturday	**14** Saturday	**11** Saturday

May	June	July	August
09 Saturday	**13** Saturday	**11** Saturday	**08** Saturday

September	October	November	December
12 Saturday	**10** Saturday	**14** Saturday	**12** Saturday

Testimonial

The following are genuine testimonials that we have received from our past students who have proven the benefits of the services we have provided to them.

Sodiq
★★★★★

I've attended other online classes before, but Amdor Analytics stands out for me. The facilitator is engaging, the sessions are practical, and the support team is responsive. I feel like I'm part of a real community that wants me to succeed. I'm happy I made this choice

Chinasa Fabian-Ijeruh
★★★★★

Before joining Amdor Analytics, I had no prior tech background. Now, I can confidently analyze data and build reports. The facilitator is very supportive and always encourages us to practice. The training has made me believe that anyone can learn tech if they're in the right environment.

Chidimma Uzochukwu
★★★★★

It's been an eye-opening experience learning at Amdor Analytics. The way the facilitator breaks down each lesson into relatable examples makes learning easy. Even though the pace is fast sometimes, the explanations are clear, and the resources provided are excellent. I'm really grateful for this opportunity.
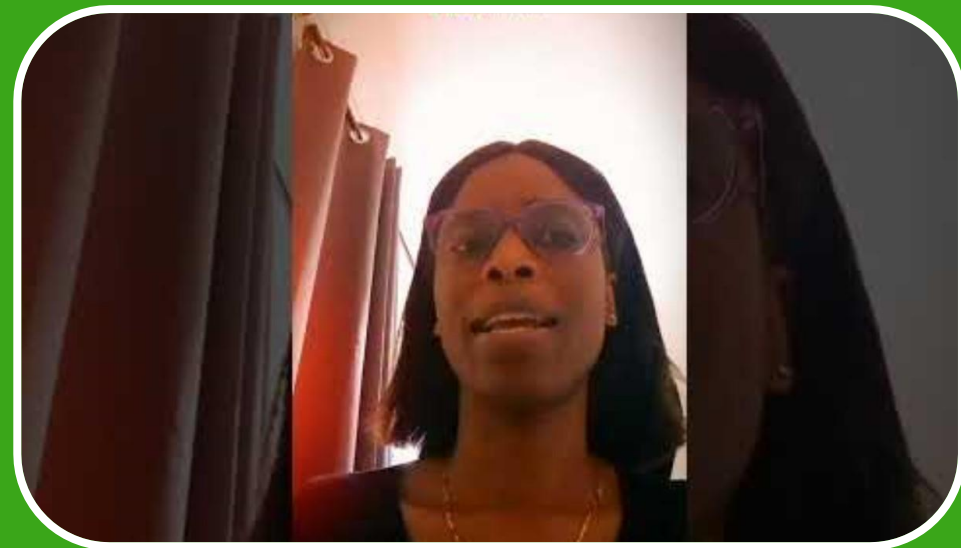
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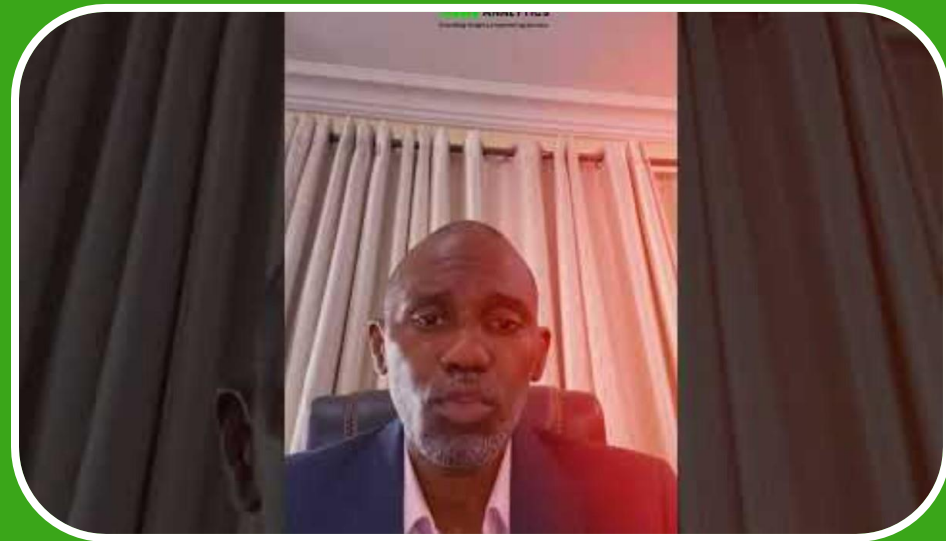
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