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STATISTICAL ANALYSIS MEANS INVESTIGATING TRENDS PATTERNS AND RELATIONSHIPS USING QUANTITATIVE DATA IT IS AN IMPORTANT RESEARCH TOOL USED BY SCIENTISTS GOVERNMENTS BUSINESSES AND OTHER ORGANIZATIONS TO DRAW VALID CONCLUSIONS STATISTICAL ANALYSIS REQUIRES CAREFUL PLANNING FROM THE VERY START OF THE RESEARCH PROCESS STATISTICAL ANALYSIS IS THE PROCESS OF COLLECTING AND ANALYZING LARGE VOLUMES OF DATA IN ORDER TO IDENTIFY TRENDS AND DEVELOP VALUABLE INSIGHTS IN THE PROFESSIONAL WORLD STATISTICAL ANALYSTS TAKE RAW DATA AND FIND CORRELATIONS BETWEEN VARIABLES TO REVEAL PATTERNS AND TRENDS TO RELEVANT STAKEHOLDERS STATISTICAL ANALYSIS IS A TECHNIQUE WE USE TO FIND PATTERNS IN DATA AND MAKE INFERENCES ABOUT THOSE PATTERNS TO DESCRIBE VARIABILITY IN THE RESULTS OF A DATA SET OR AN EXPERIMENT IN ITS SIMPLEST FORM STATISTICAL ANALYSIS ANSWERS QUESTIONS ABOUT QUANTIFICATION HOW BIG SMALL TALL WIDE IS IT VARIABILITY GROWTH INCREASE DECLINE IN SIMPLE WORDS STATISTICAL ANALYSIS IS A DATA ANALYSIS TOOL THAT HELPS DRAW MEANINGFUL CONCLUSIONS FROM RAW AND UNSTRUCTURED DATA THE CONCLUSIONS ARE DRAWN USING STATISTICAL ANALYSIS FACILITATING DECISION MAKING AND HELPING BUSINESSES MAKE FUTURE PREDICTIONS ON THE BASIS OF PAST TRENDS THIS ARTICLE COVERS MANY STATISTICAL IDEAS ESSENTIAL TO RESEARCH STATISTICAL ANALYSIS SAMPLE SIZE IS EXPLAINED THROUGH THE CONCEPTS OF STATISTICAL SIGNIFICANCE LEVEL AND POWER VARIABLE TYPES AND DEFINITIONS ARE INCLUDED TO CLARIFY NECESSITIES FOR HOW THE ANALYSIS WILL BE INTERPRETED STATISTICAL ANALYSIS DEFINED WHAT IS STATISTICAL ANALYSIS IT S THE SCIENCE OF COLLECTING EXPLORING AND PRESENTING LARGE AMOUNTS OF DATA TO DISCOVER UNDERLYING PATTERNS AND TRENDS STATISTICS ARE APPLIED EVERY DAY IN RESEARCH INDUSTRY AND GOVERNMENT TO BECOME MORE SCIENTIFIC ABOUT DECISIONS THAT NEED TO BE MADE FOR EXAMPLE STANFORD S INTRODUCTION TO STATISTICS TEACHES YOU STATISTICAL THINKING CONCEPTS THAT ARE ESSENTIAL FOR LEARNING FROM DATA AND COMMUNICATING INSIGHTS BY THE END OF THE COURSE YOU WILL BE ABLE TO PERFORM EXPLORATORY DATA ANALYSIS UNDERSTAND KEY PRINCIPLES OF SAMPLING AND SELECT APPROPRIATE TESTS OF SIGNIFICANCE FOR MULTIPLE CONTEXTS STATISTICAL ANALYSIS IS THE SCIENCE OF COLLECTING DATA AND UNCOVERING PATTERNS AND TRENDS IT S REALLY JUST ANOTHER WAY OF SAYING STATISTICS AFTER COLLECTING DATA YOU CAN ANALYZE IT TO SUMMARIZE THE DATA FOR EXAMPLE MAKE A PIE CHART FIND KEY MEASURES OF LOCATION STATISTICAL ANALYSIS IS A SYSTEMATIC METHOD OF GATHERING ANALYZING INTERPRETING PRESENTING AND DERIVING CONCLUSIONS FROM DATA IT EMPLOYS STATISTICAL TOOLS TO FIND PATTERNS TRENDS AND LINKS WITHIN DATASETS TO FACILITATE INFORMED DECISION MAKING STATISTICAL ANALYSIS IS THE PROCESS OF LEARNING FROM DATA DATA CAN BE ANY INFORMATION COLLECTED THROUGH OBSERVATION SOME EXAMPLES INCLUDE RESPONSES TO A SURVEY MEASUREMENTS TAKEN OUT IN THE FIELD OR IN A LABORATORY OR INFORMATION COLLECTED FROM HISTORICAL RECORDS STATISTICAL ANALYSIS COLLECTS CLEANS SUMMARIZES INTERPRETS AND DRAWS CONCLUSIONS FROM DATA IT INVOLVES USING STATISTICAL TECHNIQUES AND METHODS TO ANALYZE AND MAKE SENSE OF INFORMATION HELPING RESEARCHERS ANALYSTS AND DECISION MAKERS UNDERSTAND PATTERNS RELATIONSHIPS AND TRENDS WITHIN DATA SETS STATISTICAL ANALYSIS IS A METHODICAL PROCESS OF COLLECTING ANALYZING INTERPRETING AND PRESENTING DATA TO UNCOVER PATTERNS TRENDS AND RELATIONSHIPS IT INVOLVES APPLYING STATISTICAL TECHNIQUES AND METHODOLOGIES TO MAKE SENSE OF COMPLEX DATA SETS AND DRAW MEANINGFUL CONCLUSIONS IMPORTANCE OF STATISTICAL ANALYSIS STATISTICAL ANALYSIS OR STATISTICS IS THE PROCESS OF COLLECTING AND ANALYZING DATA TO IDENTIFY PATTERNS AND TRENDS REMOVE BIAS AND INFORM DECISION MAKING THE STATISTICAL ANALYSIS GIVES MEANING TO THE MEANINGLESS NUMBERS THEREBY BREATHING LIFE INTO A LIFELESS DATA THE RESULTS AND INFERENCES ARE PRECISE ONLY IF PROPER STATISTICAL TESTS ARE USED THIS ARTICLE WILL TRY TO ACQUAINT THE READER WITH THE BASIC RESEARCH TOOLS THAT ARE UTILISED WHILE CONDUCTING VARIOUS STUDIES SKILLS YOU LL GAIN DATA ANALYSIS GENERAL STATISTICS PROBABILITY STATISTICS STATISTICAL ANALYSIS STATISTICAL TESTS R PROGRAMMING REGRESSION BIOSTATISTICS STATISTICAL PROGRAMMING BASIC DESCRIPTIVE STATISTICS EXPLORATORY DATA ANALYSIS CRITICAL THINKING CORRELATION AND DEPENDENCE PROBABILITY DISTRIBUTION EPIDEMIOLOGY 4 7 STATISTICAL METHODS FOR DATA ANALYSIS ARE THE TOOLS AND TECHNIQUES USED TO COLLECT ANALYZE INTERPRET AND PRESENT DATA IN A MEANINGFUL WAY FROM BUSINESSES OPTIMIZING OPERATIONS TO RESEARCHERS UNCOVERING NEW DISCOVERIES THESE METHODS ARE FOUNDATIONAL TO MAKING INFORMED DECISIONS BASED ON DATA STEP 1 WRITE YOUR HYPOTHESES AND PLAN YOUR RESEARCH DESIGN STEP 2 COLLECT DATA FROM A SAMPLE STEP 3 SUMMARISE YOUR DATA WITH DESCRIPTIVE STATISTICS STEP 4 TEST HYPOTHESES OR MAKE ESTIMATES WITH INFERENTIAL STATISTICS STEP 5 INTERPRET YOUR RESULTS FREQUENTLY ASKED QUESTIONS ABOUT STATISTICS STATISTICAL ANALYSIS IS A POWERFUL TOOL BUSINESSES AND 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