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STATISTICAL ANALYSIS IS AN APPROACH TO UNDERSTANDING HOW THE PROBABILITY OF CERTAIN EVENTS AFFECTS THE OUTCOME OF AN EXPERIMENT IT HELPS SCIENTISTS AND ENGINEERS DECIDE HOW MUCH CONFIDENCE THEY CAN HAVE IN THE RESULTS OF THEIR RESEARCH HOW TO INTERPRET THEIR DATA AND WHAT QUESTIONS THEY CAN FEASIBLY ANSWER 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 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 STATISTICAL APPROACH AN OVERVIEW SCIENCEDIRECT TOPICS DATA PROCESSING ANNAMARIA CASTRIGNAN⍰ GABRIELE BUTTAFUOCO IN AGRICULTURAL INTERNET OF THINGS AND DECISION SUPPORT FOR PRECISION SMART FARMING 2020 STATISTICAL APPROACH TO DATA FUSION 141 3 2 1 WHY IS THE CHANGE OF SUPPORT IMPORTANT 142 3 2 2 STATISTICS IS A SET OF TOOLS USED TO ORGANIZE AND ANALYZE DATA DATA MUST EITHER BE NUMERIC IN ORIGIN OR TRANSFORMED BY RESEARCHERS INTO NUMBERS FOR INSTANCE STATISTICS COULD BE USED TO ANALYZE PERCENTAGE SCORES ENGLISH STUDENTS RECEIVE ON A GRAMMAR TEST THE PERCENTAGE SCORES RANGING FROM 0 TO 100 ARE ALREADY IN NUMERIC FORM STATISTICAL ANALYSIS IS THE MAIN METHOD FOR ANALYZING QUANTITATIVE RESEARCH DATA IT USES PROBABILITIES AND MODELS TO TEST PREDICTIONS ABOUT A POPULATION FROM SAMPLE DATA FREQUENTLY ASKED QUESTIONS STATISTICS HOW DO I DECIDE WHICH LEVEL OF MEASUREMENT TO USE WHY DO LEVELS OF MEASUREMENT MATTER WHAT ARE THE FOUR LEVELS OF MEASUREMENT WRITTEN BY COURSERA STAFF UPDATED ON APR 19 2024 DATA ANALYSIS IS THE PRACTICE OF WORKING WITH DATA TO GLEAN USEFUL INFORMATION WHICH CAN THEN BE USED TO MAKE INFORMED DECISIONS IT IS A CAPITAL MISTAKE TO THEORIZE BEFORE ONE HAS DATA INSENSIBLY 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