

INTERNSHIP IN ARTIFICIAL INTELLIGENCE, MACHINE LEARNING & DATA SCIENCE.

DURATION - 3-4 MONTHS



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① C Programming



Module Outline

- Environment Setup
- Program Structure
- Basic Syntax
- Data Types
- Variables
- Constants
- Storage Classes
- Operators
- Decision Making
- Loops
- Functions
- Scope Rules
- Arrays
- Pointers
- Strings
- Structures
- Unions
- Bit Fields
- Typedef
- Input & Output
- File I/O
- Preprocessors
- Header Files
- Type Casting
- Error Handling
- Recursion
- Variable Arguments
- Memory Management
- Command Line Arguments

② Python for Data Science (Foundations)



Module Outline

- Python basics (quick revision)
- Data types and data structures
- Conditional statements and loops
- Functions and lambda functions
- File handling (CSV, TXT)



③ NumPy and Pandas (Data Handling)



Module Outline

- NumPy arrays, indexing, slicing
- Vectorized operations
- Statistical functions
- Pandas Series and DataFrame
- Reading CSV/Excel files
- Data cleaning and preprocessing



④ Statistics for Data Science



Module Outline

- Descriptive statistics
- Probability concepts
- Normal distribution and Z-score
- Hypothesis testing
- Correlation and covariance



5 Machine Learning Fundamentals



Module Outline

- Supervised learning algorithms
- Linear and logistic regression
- Decision trees and random forest
- KNN algorithm
- Unsupervised learning (K-Means)
- Model evaluation metrics

