

Java + DSA + Machine Learning 180-Day Study Plan

- [] 2025-07-04 | Java Day 1 | Basics: Syntax, Data Types, Variables, Operators, Input/Output
- [] 2025-07-05 | Java Day 2 | Control Statements: if, switch, loops (for, while, do-while) | ML: Intro to ML, Applications, Types
- [] 2025-07-06 | Java Day 3 | Arrays, Strings, StringBuilder, StringBuffer | ML: Supervised Learning - Regression Basics
- [] 2025-07-07 | Java Day 4 | Methods, Recursion, Scope, Overloading
- [] 2025-07-08 | Java Day 5 | OOP: Classes, Objects, Constructors
- [] 2025-07-09 | Java Day 6 | Inheritance, Polymorphism, Abstraction, Interfaces
- [] 2025-07-10 | Java Day 7 | Exception Handling, File I/O, Wrapper Classes, Collections (overview)
- [] 2025-07-11 | Phase 1: Foundation | Day 1 of 23
- [] 2025-07-12 | Phase 1: Foundation | Day 2 of 23 | ML: Supervised Learning - Classification Basics
- [] 2025-07-13 | Phase 1: Foundation | Day 3 of 23 | ML: Model Evaluation: Accuracy, Precision, Recall, F1
- [] 2025-07-14 | Phase 1: Foundation | Day 4 of 23
- [] 2025-07-15 | Phase 1: Foundation | Day 5 of 23
- [] 2025-07-16 | Phase 1: Foundation | Day 6 of 23
- [] 2025-07-17 | Phase 1: Foundation | Day 7 of 23
- [] 2025-07-18 | Phase 1: Foundation | Day 8 of 23
- [] 2025-07-19 | Phase 1: Foundation | Day 9 of 23 | ML: Unsupervised Learning - Clustering (K-Means)
- [] 2025-07-20 | Phase 1: Foundation | Day 10 of 23 | ML: Unsupervised Learning - Dimensionality Reduction
- [] 2025-07-21 | Phase 1: Foundation | Day 11 of 23
- [] 2025-07-22 | Phase 1: Foundation | Day 12 of 23
- [] 2025-07-23 | Phase 1: Foundation | Day 13 of 23
- [] 2025-07-24 | Phase 1: Foundation | Day 14 of 23
- [] 2025-07-25 | Phase 1: Foundation | Day 15 of 23
- [] 2025-07-26 | Phase 1: Foundation | Day 16 of 23 | ML: Decision Trees and Random Forests
- [] 2025-07-27 | Phase 1: Foundation | Day 17 of 23 | ML: Naive Bayes and Logistic Regression
- [] 2025-07-28 | Phase 1: Foundation | Day 18 of 23
- [] 2025-07-29 | Phase 1: Foundation | Day 19 of 23
- [] 2025-07-30 | Phase 1: Foundation | Day 20 of 23
- [] 2025-07-31 | Phase 1: Foundation | Day 21 of 23
- [] 2025-08-01 | Phase 1: Foundation | Day 22 of 23
- [] 2025-08-02 | Phase 1: Foundation | Day 23 of 23 | ML: SVM and k-NN
- [] 2025-08-03 | Phase 2: Core Data Structures | Day 1 of 45 | ML: Neural Networks (Intro)
- [] 2025-08-04 | Phase 2: Core Data Structures | Day 2 of 45
- [] 2025-08-05 | Phase 2: Core Data Structures | Day 3 of 45
- [] 2025-08-06 | Phase 2: Core Data Structures | Day 4 of 45
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- [] 2025-08-08 | Phase 2: Core Data Structures | Day 6 of 45

- [] 2025-08-09 | Phase 2: Core Data Structures | Day 7 of 45 | ML: Overfitting, Bias-Variance Tradeoff
- [] 2025-08-10 | Phase 2: Core Data Structures | Day 8 of 45 | ML: Real-World ML Project Walkthrough
- [] 2025-08-11 | Phase 2: Core Data Structures | Day 9 of 45
- [] 2025-08-12 | Phase 2: Core Data Structures | Day 10 of 45

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[] 2025-09-21 | Phase 3: Advanced Algorithms | Day 5 of 55

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