



100 Days of Machine Learning Tracking Sheet

Source: CampusX (Nitish Singh)

Level: From Scratch to Advanced



Phase 0: The Prerequisite (Python Foundations)

Complete this before Day 1 if you don't know functions or loops.

Step	Topic	Goal	Status
P1	Python Variables & Data Types	Learn how to store info (Strings, Ints, Lists)	
P2	If-Else & Loops	Learn how to make the computer repeat tasks	
P3	Functions (def)	Learn how to wrap logic into a "black box"	
P4	List Comprehension	Learn the Pythonic way of handling data	



Phase 1: Introduction & Lifecycle (Days 1 - 13)

Day	Topic	Key Focus	Status
1-3	Intro to ML & Types	Supervised vs. Unsupervised vs. Reinforcement	
4-7	ML Development Lifecycle	Data collection → Deployment	
8-12	Environment Setup	Install Anaconda, VS Code, Jupyter Notebooks	
13	Project 1	Build your first simple end-to-end ML model	



Special Phase: Math & Stats for ML (Integrated)

Refer to the "Maths for Machine Learning" playlist as you reach Phase 4.

Topic	Key Concept	Why it matters	Status
Linear Algebra	Vectors & Matrices	This is how data is stored and moved.	[]

Linear Algebra	Dot Product	Used to calculate the "closeness" of data.	[]
Calculus	Derivatives/Gradients	Tells the model how to "fix" its mistakes.	[]
Statistics	Descriptive Stats	Mean, Median, Mode, Standard Deviation.	[]
Statistics	Inferential Stats	Hypothesis testing and P-values.	[]
Probability	Distributions	Normal distribution (The Bell Curve).	[]

● Phase 2: Feature Engineering (Days 14 - 40)

This is the most critical phase for real-world skills.

Day	Topic	Key Focus	Status
14-20	Handling Missing Data	Simple Imputer, KNN Imputer, Multivariate	
21-25	Categorical Encoding	One Hot Encoding, Ordinal/Label Encoding	
26-30	Transformation	Column Transformer & Pipeline (Automation)	
31-35	Mathematical Transforms	Log, Sigmoid, Reciprocal, Power Transforms	
36-40	Outlier Detection	Z-Score, IQR, Percentile methods	

● Phase 3: Exploratory Data Analysis (Days 41 - 55)

Day	Topic	Key Focus	Status
41-45	Univariate Analysis	Analyzing columns one by one (Histograms)	
46-50	Bivariate/Multivariate	Analyzing relationships between columns	
51-55	Pandas Profiling	Auto-generating data reports	

● Phase 4: Core Algorithms & Metrics (Days 56 - 90)

Day	Topic	Key Focus	Status
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56-65	Linear Regression	Simple, Multiple, Polynomial (Math + Code)
66-70	Logistic Regression	Predicting categories (Sigmoid function)
71-75	Metrics (The Scores)	Accuracy, Precision, Recall, F1-Score, Confusion Matrix
76-80	Support Vector (SVM)	Learning about Hyperplanes and Kernels
81-85	Decision Trees	Entropy, Gini Impurity, Information Gain
86-90	Random Forest	Bagging and Ensemble techniques

● Phase 5: Advanced Topics & Deployment (Days 91 - 100)

Day	Topic	Key Focus	Status
91-93	Dimensionality Reduction	PCA (Principal Component Analysis)	
94-96	Model Selection	Hyperparameter Tuning (GridSearch, RandomSearch)	
97-100	Deployment	Flask/Streamlit/Heroku (Putting models online)	

💡 Tips for Success

- 1. **The 1-Hour Rule:** Code for at least 1 hour every day. Consistency beats intensity.
- 2. **The "Why" Factor:** When learning algorithms, understand *why* the score is high or low, not just how to run the code.
- 3. **Don't Skip Phase 3:** Feature Engineering is 80% of an ML Engineer's job.