

90-Day Machine Learning Engineer – Daily Checklist

Daily structure: Learn (45–60 min) → Code (45–60 min) → Reflect (15 min). Tick each item daily.
Consistency > perfection.

PHASE 1 (Days 1–30): ML Foundations

- ■ Day 1–2: Python refresh (functions, loops, OOP)
- ■ Day 3–4: NumPy arrays & operations
- ■ Day 5–6: Pandas basics & data cleaning
- ■ Day 7: Weekly review & refactor
- ■ Day 8–10: Data preprocessing & EDA
- ■ Day 11–14: Feature engineering & visualization
- ■ Day 15–18: Linear, Logistic, KNN, Decision Trees
- ■ Day 19–21: Random Forest & model comparison
- ■ Day 22–24: Evaluation metrics
- ■ Day 25–27: Pipelines & tuning
- ■ Day 28–30: Mini ML project & documentation

PHASE 2 (Days 31–60): Applied ML Engineering

- ■ Day 31–35: sklearn pipelines & reusable code
- ■ Day 36–40: Model selection & experiment tracking
- ■ Day 41–45: End-to-end ML system
- ■ Day 46–50: FastAPI model serving
- ■ Day 51–55: Docker basics & AWS deployment
- ■ Day 56–60: MLflow intro & monitoring basics

PHASE 3 (Days 61–90): NLP Specialization

- ■ Day 61–65: Text preprocessing & TF-IDF
- ■ Day 66–70: Classical NLP models
- ■ Day 71–75: NLP project (sentiment/spam)
- ■ Day 76–80: Transformers & Hugging Face
- ■ Day 81–85: Fine-tuning NLP models
- ■ Day 86–90: Final production-grade NLP project

Weekly Reflection:

- What did I learn?
- What confused me?
- What will I improve next week?