Machine Learning Bootcamp

Benefits / Features	Foundation (8 hrs)	Analyst (16 hrs)	Expert (16 hrs)
Ideal For	Python Learners & Data Analysts	Data Scientists	Data Engineers / ML Practitioners
Core Focus	ML Fundamentals & Preprocessing	Supervised & Unsupervised Learning	Optimization, Automation & Explainable AI
EDA & Visualization	✅ Basic	✅ Advanced	✅ Expert-Level
Regression Models	✅ Linear	✅ Multiple & Regularized	✅ Advanced Comparison
Classification Models	❌	✅	✅ Advanced
Unsupervised Learning	❌	✅	✅
Feature Engineering	✅	✅ Advanced	✅ Advanced
Model Optimization	❌	✅ Basic	✅ Advanced (GridSearchCV, Cross-Validation)
Model Explainability (XAI)	❌	❌	✅ (SHAP, LIME Concepts)
Automation / Deployment	❌	✅ Concept	✅ Full Implementation
ChatGPT & AI Integration	❌	❌	✅ Free Tools
Certificate of Completion	✅	✅	✅
Learning Outcome	Understand ML Concepts	Build & Evaluate ML Models	Automate, Explain & Optimize ML Pipelines
Hands-on Projects	1 Project	2 Projects	3 Advanced Projects

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Project Domains	Sales / HR / Finance	Sales / HR / Supply Chain	Churn / Forecast / Optimization
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Datasets, notebooks & AI tools provided during sessions. © Suryakant Paswan

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