AI for Software Engineers

List Title	Learning Objective	Target Audience	Key Topics	Example Titles
Practical Machine Learning Skills for Engineers	Provide engineers with practical, code-driven ML training for model building, evaluation, and deployment in production systems.	Software Engineers, Technical Developers, Data Engineers	ML algorithms, practical deployment, engineering use-cases, pipeline design, evaluation metrics	Machine Learning with Scikit-Learn, No-Code Machine Learning Using Amazon AWS SageMaker Canvas
AI Driven Data Science: Engineering Applications	Equip engineering teams with the skills to apply modern data science methods across the full AI lifecycle—from data prep to model deployment—bridging the gap between engineering practice and intelligent automation.	Technical Analysts, Engineers, Developers	Statistical analysis, data visualization, decision support, feature engineering, hypothesis testing	Pandas for Beginners, Advanced Predictive Techniques with Scikit-Learn and TensorFlow
Natural Language Processing Essentials for Engineers (NLP)	Equip engineers with hands-on skills to build and optimize NLP models for text classification, conversation, and document processing.	Developers, NLP Specialists, Data Scientists	Chatbots, sentiment analysis, NLP pipelines, embeddings, tokenization, transformer architectures	Natural Language Processing - Probability Models in Python, Natural Language Processing in Python for Beginners
Advanced Deep Learning Engineering: Models and Applications	Provide skills to design, train, and optimize deep learning models using popular frameworks while applying them to real-world problems like recommendation systems and reinforcement learning.	AI Specialists, Advanced Developers, Research Engineers, Data Engineers	Neural network foundations, TensorFlow and PyTorch workflows, performance tuning, model deployment, recommender systems, deep reinforcement learning.	Deep Learning for Python Developers, The Deep Learning Workshop: Integrated Course
Building Scalable AI Solutions on AWS & Azure	Train professionals to manage scalable AI solutions in cloud environments from training to deployment.	Cloud Engineers, Solutions Architects, Data Scientists, Machine Learning Specialists	Cloud AI infrastructure, scalable deployments, model training, containerization, MLOps tools	AI-900: Microsoft Azure AI Fundamentals Video Course and Questions, AWS Certified Machine Learning - Specialty (MLS-C01) Certification Guide
AI Enhanced Software Development: Coding, Debugging and Prototyping	Empower development teams with practical tools and frameworks to use generative AI for faster, more reliable coding and prototyping.	Software Developers, DevOps Engineers, IT Professionals	AI-enhanced coding, code generation, prototyping workflows, debugging with AI, GitHub Copilot, design-to-code use cases	Using Generative AI for Coding: AI Quick Wins, ChatGPT and Prompt Engineering for Software Developers