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100% JOB ORIENTED ADVANCE EMBEDDED COURSES



SCAN & CONNECT

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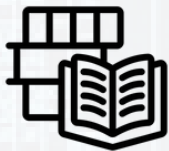
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www.technoscripts.in

ABOUT US

TechnoScripts is an ISO 9001:2015 certified best training institute for advance courses in Embedded System. We are pioneer of Embedded System training in Pune development. Though we provide many different courses and training in embedded all aim at giving good practical knowledge to students as well help them in career

OUR FEATURES



STUDY
MATERIAL



ISO
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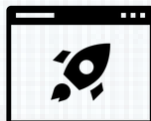
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LABS



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IOT Training

Autosar Training

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COURSE SYLLABUS : AI ML COURSE WITH PLACEMENTS

Module 1: Introduction to AI & ML

Understand what AI and ML are, explore their types, and set up your development environment.

Module 2: Python Coding Language Basics

Start coding in Python with variables, loops, functions, and simple hands-on scripting tasks.

Module 3: Python for Data Handling

Manipulate data using Python collections, handle files, and explore NumPy and Pandas basics.

Module 4: Mathematics for AI and ML

Grasp the mathematical backbone of AI including linear algebra, statistics, probability, and calculus.

Module 5: Data Preprocessing Techniques

Clean, transform, and prepare your datasets with techniques like encoding and normalization.

Module 6: Introduction to Machine Learning

Get introduced to ML workflows, key terms, and the difference between supervised and unsupervised learning.

Module 7: Linear Regression

Learn how to predict continuous outcomes and build your first regression model from scratch.

Module 8: Logistic Regression

Classify binary outcomes using sigmoid-based models and evaluate performance with accuracy and recall.

Module 9: Decision Trees

Understand how decision trees work and implement a model using concepts like entropy and information gain.

Module 10: Random Forests

Boost accuracy using ensemble methods like bagging and feature randomness in a random forest model.

Module 11: K-Nearest Neighbors (KNN)

Use distance metrics to classify data based on the nearest neighbors in your dataset.

Module 12: Support Vector Machines (SVM)

Draw optimal boundaries between classes using kernels and margin maximization techniques.

Module 13: Clustering with K-Means

Group similar data points using K-Means clustering and determine optimal cluster numbers.

Module 14: Principal Component Analysis (PCA)

Reduce dimensionality of complex datasets and visualize high-dimensional data efficiently.

Module 15: Introduction to Neural Networks

Build basic neural networks and understand layers, activation functions, and forward propagation.

Module 16: Deep Learning with TensorFlow and Keras

Train deep models using TensorFlow/Keras and master parameters like epochs and batch size.

Module 17: Convolutional Neural Networks (CNNs)

Extract image features using convolutional layers for classification and visual recognition tasks.

Module 18: Recurrent Neural Networks (RNNs)

Process sequences like time series or text with RNNs, LSTM, and GRU architectures.

Module 19: Natural Language Processing (NLP) Basics

Explore text-based AI using tokenization, TF-IDF, and sentiment analysis techniques.

Module 20: Introduction to Generative AI

Learn how models generate text, images, and audio using techniques like GANs and VAEs.

Module 21: Generative Adversarial Networks (GANs)

Build GANs with generator and discriminator networks for synthetic image creation.

Module 22: Reinforcement Learning Basics

Train AI agents using rewards with Markov Decision Processes and Q-learning strategies.

Module 23: Model Evaluation & Tuning

Evaluate ML models using accuracy, F1, AUC, and fine-tune with cross-validation and grid search.

Module 24: AI/ML in Industry – Part 1

Explore AI applications in healthcare, finance, and retail through practical case studies.

Module 25: AI/ML in Industry – Part 2

Apply AI in manufacturing, marketing, and transport and solve an industry-specific challenge.

Module 26: Model Deployment

Deploy models to production using Flask/FastAPI and explore cloud deployment options.

PLACEMENTS

We provide 100% placement support to every student enrolled for Job oriented courses. We invite top companies for campus interview at our centre as well arrange the interviews for students at company premises.

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