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Embedded Systems | Software | Mechanical | Automation

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Industrial Certified

Advanced Artificial Intelligence & Machine Learning

We Are India's one of the Leading Trainings & Jobs Providing Organization



Skill India Mission

कौशल भारत - कुशल भारत



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Type of Enterprise	Micro	Small	Medium
Manufacturing	A	B	C
Services	D	E	F
UAN	MH19E0006383		

Government of India (MSME)
Name of Enterprise : Embedded Technosolutions
Type of Organisation
 Proprietary
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 Shop No.C/20,1st Floor ,Amrita Sadan, Near Hotel Dwarka, Nerul West, District - Mumbai City, State - Maharashtra, 400706
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Majority Activity
 Services
District Industry Centre **UAN**
 Mumbai City MH19E0006383

**Government of India (MSME) & ISO 9001-2015
Approved Organisation
Running by IIT Bombay & VJTI Alumni**



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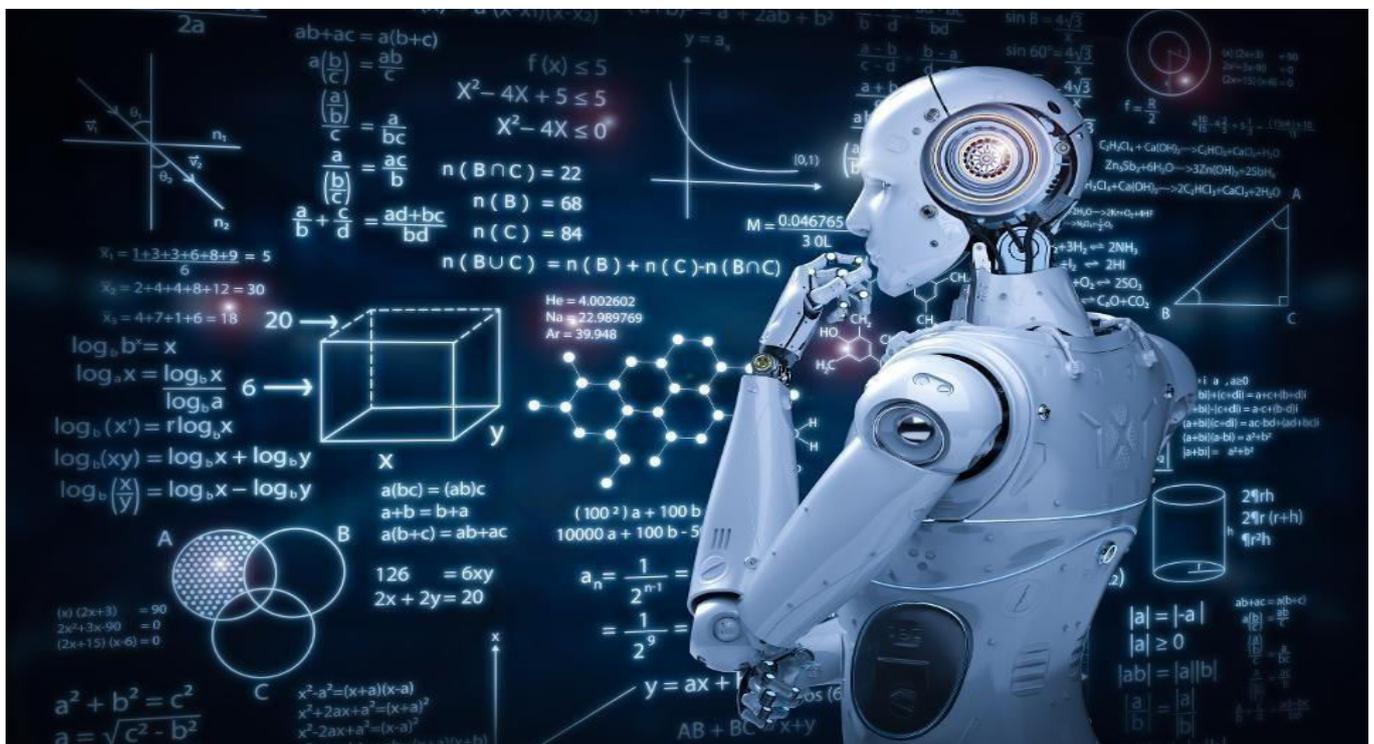
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Embedded Technosolutions is a Professional & Corporate Training Institute & a Company which Working for Indian MNCs & Medium/Small Scale Industries in Product R&D, Development, Manufacturing & Customization.

Our training sessions are purely practical based on industrial standards



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Till Now We Worked for the following Industries

- Crompton Greaves Ltd, Mumbai
- Laboratory Corporation of America, LabCorp, Burlington, NC USA
- Netfinity, India
- Continental Grain Corporation
- Brook Furniture Rental, Chicago, IL
- ITA, Bangalore
- RAK Ceramics, Mumbai
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- ARORA, Mumbai
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Advanced

Artificial Intelligence & Machine Learning

Module 1 : Introduction to Python Programming

- Introduction to Python
- History of Python
- Why to learn python
- How is Python Different?
- Installing Python

Module 2 : Python Interpreter

- Using the interpreter
- Integrated Development Environments (IDE)
- How to run Python programs



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Module 3 : Introduction to Jupyter notebook

- Types of cells
- Creating cells
- Running cells
- Editing cells
- Moving cells
- Deleting cells
- Creating a code cell
- Saving the notebook

Module 4 : Basics of Python

- Variable
- Keywords
- Statements & Comments
- Indentation
- Data types
- Static Typing vs Dynamic Typing
- Input and output

Module 5 : Operators

- Arithmetic operator



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-
- Relational Operator
 - Assignment Operator
 - Logical operator Bitwise operator
 - Membership Operator
 - Identity Operator

Module 6 : Control Flow

- If statement
- If - else
- If – elif -else
- Nested if - else
- while loop
- for – in loop
- Nested loop
- Loop with else
- Pass statement
- Break and continue

Module 7 : Functions

- Function Basics
- Defining function
- Function call
- Return statement
- Function parameters



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-
- Call by value or call by reference
 - Local and global variable
 - Recursion, Anonymous (lambda) function

Module 8 : Python Module Programming

- Defining module
- How to create module
- Importing module
- Dir()
- Module search path
- Reloading a module
- Sys module
- Os module

Module 9 : Numeric Types

- Numeric types
- Numeric type basics
- Numbers
- Hexadecimal, Octal and Binary Notation
- Complex Numbers
- Type casting Numeric Functions
- Random number generation
- String
- Defining a string



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- Different ways to create string
- Accessing elements of string
- Escape sequence
- Raw string
- String methods
- String formatting Expressions

Module 10 : List

- Defining a list
- Creating list
- Accessing list elements of list
- Deleting list
- List methods
- Functions used with list
- List comprehension
- Implementation of stack and queue using list
- Use of Zip ()
- Matrix operations using list

Module 11 : Tuple

- Defining a tuple
- Creating a tuple
- Accessing elements of tuple
- Immutability



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- List vs tuples
- Tuple Methods
- Functions used with tuple
- Advantage of Tuple

Module 12 : Dictionary

- Defining a dictionary
- Creating a dictionary
- Accessing elements of dictionary
- Deleting a dictionary
- Dictionary methods
- Dictionary Comprehension

Module 13 : Set

- Defining a set
- Creating set
- Set operations
- Set methods
- Set comprehension

Module 14 : Files

- Defining a file
- Types of file



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- File operations
- Opening a File
- Closing file
- File modes
- File attributes
- Writing to file
- Reading from file
- Appending to file
- File positions
- Binary file
- Pickle module

Module 15 : Exception Handling

- Exception Handling
- Defining an exception?
- Default exception handler
- Exception handling techniques
- Detecting Exception (try)
- Catching exceptions (catch)
- Catching multiple exceptions
- Raising exception (raise)
- Finally block
- User defined exceptions



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Module 16 : Object Oriented Programming

- OOPs concepts
- Defining a class
- Creating object
- Method vs function
- Calling methods
- Instance attribute vs class attribute
- Instance method vs class method
- Private attribute and method
- Method Overloading
- Constructor
- List of objects
- Inheritance
- Method overriding
- Operator overloading

Module 17 : Multi Threading

- Process based multi tasking
- Thread based multi tasking
- Creating a Thread without using class
- Creating thread using class
- Sleep() method
- Join() method



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-
- Getting and setting name of Thread
 - Logging module
 - Synchronization
 - Lock concept
 - Inter thread communication
 - Is_Alive() method
 - Active_count() method
 - Enumerate() method
 - Current_thread() method
 - Daemon Thread

Module 18 : GUI Programming using tkinter

- Introduction to tkinter
- Creating a window
- Tkinter widgets
- Label
- Button
- Entry
- Message box
- List
- Radio Button



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-
- Check Button
 - Creating Frame
 - Creating Menu
 - Assignments on tkinter
 - Mini Project Using MVC Design Pattern



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Advanced Module

Advanced Module 1 : SQL and Database Connectivity

- Introduction to MYSQL db module
- Connecting to database by using MYSQL
- Creating table by MYSQL
- Performing sql operations
- Introduction to MySQL
- Installing MySQL
- Creating database using MySQL
- Connecting MYSQL database from python
- Creating table
- Performing crud operations
- DAO Design Pattern

Advanced Module 2 : Introduction To peewee

- Creating Models
- Creating tables automatically using model



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-
- Performing crud operations without SQL
 - DAO Design Pattern using peewee

Advanced Module 3 : Networking

- Introduction to Network programming
- Ip address
- Port Number
- Socket module
- Server socket
- Client socket
- Socket methods
- TCP socket
- UDP socket

Advanced Module 4 : Conversion of Python Script to executable file

- Defining an executable file
- Installing cx_Freeze module
- Importing setup and Executable
- Deploying the application



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Advanced Module 5 : Django Web Framework

- Intro to Django Web Framework
- Installing and Configuration
- Starting a new project
- Models
- Django Admin Interface
- URLs
- Views (Form-based and Class-based)
- Templates (HTML)
- Forms
- User Authentication
- Intro to Git and Github Using and reading third-party Django Apps
- Designing your Django website
- More exercises

Advanced Module 6 : NumPy and Scipy

- introduction to NumPy
- Understanding-Data-Types



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-
- The Basics Of NumPy Arrays
 - introduction to scipy as sub module of numpy

Advanced Module 7 : Pandas

- Introduction-to-Pandas
- Introducing-Pandas-Objects
- Data-Indexing-and-Selection
- Operations-in-pandas
- Missing-Values
- Hierarchical-Indexing
- Concat-And-Append
- Merge-and-Join
- Aggregation-and-Grouping
- Pivot-Tables
- Working-With-Strings
- Working-with-Time-Series
- Performance-Eval-and-Query



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Advanced Module 8 : Matplotlib

- Introduction-To-Matplotlib
- Simple-Line-Plots
- Simple-Scatter-Plots
- Error bars
- Density-and-Contour-Plots
- Histograms-and-Binnings
- Customizing-Legends
- Customizing-Colorbars
- Multiple-Subplots
- Text-and-Annotation
- Customizing-Ticks
- Settings-and-Stylesheets
- Three-Dimensional-Plotting
- Geographic-Data-With-Basemap
- Visualization-With-Seaborn



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Advanced Module 9 : Machine Learning

- Machine-Learning Concept
- What Is Machine-Learning
- Introducing Scikit-Learn

Advanced Module 10 : Machine Learning Algorithms

- Linear Regression
- Logistic Regression
- Naive Bayes
- Support Vector Machines



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- As we are working for industries for their product development, R&D, Customization & Manufacturing we get direct recruitment related notification from that companies whenever there is the recruitment in the that companies.
- Also other companies in the market they also call us regarding recruitment process.

These entire JOB related notifications we exclusively provide to our students and they can apply in that companies directly. We upload the password protected job notifications on our website, students can access that job notifications from our website with password.