

Project Training With Internship Program

DESKTOP

WEB

MOBILE/CLOUD

MACHINE LEARNING

PROJECTS

▶ CORE JAVA

▶ ADVANCE JAVA

▶ PYTHON

▶ MERN

▶ SPRING BOOT

▶ ANDROID

▶ AWS

▶ IoT

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Core Java

Features of Java
Eclipse IDE Configuration
OOPs Concept with real life examples
JShell Tool
Packages & interfaces
Exception Handling
Streaming, Multithreading
Annotations
JDBC, GUI Designing
Event handling
Collection Framework and Generics

PROJECT



Advance Java

Web designing Techniques like HTML, CSS, JavaScript, jQuery & Bootstrap
Introduction to Web Server
Collection Framework
Design Pattern like Singleton, Factory, DAO
Servlet
JSP
MySQL Database
JDBC
AJAX
Eclipse IDE Configuration

PROJECT

Android

Introduction to Android studio
Android Architecture
Various XML resource files
Layouts and Widgets
Activity, Fragment
Intent and Intent Filter
Notifications
Graphics, Animation and Media
Data Storage



Content Provider
Broadcast Receiver
Google Map and Locations
Web Services and JSON
Material Design
Third Party Libraries
Google Firebase
Overview of Kotlin

PROJECT

Spring Boot

Spring framework Introduction
Spring Modules
Maven and POM
IOC container
Dependency Injection concepts
Spring Boot VS Spring
Spring Boot architecture
Annotations
Components
JDBC Templates
CRUD Repository
Restful web services
PROJECT



AWS

Introduction to Cloud Computing and AWS
Service Models
Deployment models
AWS Account creation
Identity Access Management
Root Account Vs IAM user
MFA
Password Policies
Groups
Roles



AWS Global Infrastructure
Regions
Availability Zones
Edge Locations
Compute Services
Storage Solutions
S3, EBS, Glacier
Route 53, VPC
Security Options
Linux Introduction

PYTHON

Introduction to Python
Variables, Data Types
Operators
Control Statements
Sequence, Map & Set Data Types
Functions



Modules & Packages
Exception Handling
File Handling
Object Oriented Concepts
Database Connectivity with SQLite database
VS Code Configuration

Python with Django Framework

- ▶ Web designing Techniques like HTML, CSS, JavaScript, jQuery & Bootstrap
- ▶ MVC and MVT Model
- ▶ Django Project Directory Structure
- ▶ Views, URL Pattern
- ▶ Templates, Forms, Template Inheritance
- ▶ Model, ORM, DTL, Queries
- ▶ SQLite Database, AJAX Integration

PROJECT

Python with Data Science & ML

- ▶ Introduction to Data Science
- ▶ Data Manipulation and Visualization using libraries like Numpy, Pandas, Matplotlib & Seaborn
- ▶ ML concepts and its Types
- ▶ Regression, Classification and Clustering techniques
- ▶ Implementation of ML Algorithms

PROJECT

IoT

Introduction
Architecture
Resistors, Diodes, ICs, Transistors
Motors, Relay
Transmitters & Receivers
Sensor & Actuator
Interfacing LED, Button
Raspberry pi

Arduino
Arduino Programming
Communication Protocol
Introduction to IPv4 and IPv6
TCP/UDP Protocol
HTTP Application layer Protocol
MQTT Protocol
PROJECT

MERN

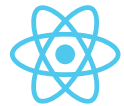
Node.js & Express.js

Introduction to Node.js
Modules in Node.js
Synchronous & Asynchronous programming
Call Backs and Event Loop
Node Package Manager
Built-In modules
Express Framework
Building API using Express
Introduction to Postman
Testing API using Postman
Integration with MongoDB
Integration with React



React.js

Introduction to web development
Client and Server side Technologies
SPA and MPA
HTML, CSS, Bootstrap, JSON
JavaScript based on ES6
Introduction to React.js
Virtual DOM, JSX
Class and Functional components
Styling
React Routing
React Hooks
Axios and JSON-Server



MongoDB

Introduction to MongoDB
SQL vs NoSQL
MongoDB Atlas
MongoDB Compass
Schema design and Data modeling
Crud Operations



Full Stack Web Project using MERN Technology