NXT WAVE™ | INTENSIVE

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Fundamentals Curriculum

Build a strong foundation in front-end development and web design with HTML and CSS. Also, learn the fundamentals of programming with Python. With hands-on practice, become proficient in the syntax, structure, and usage of these technologies and develop problem-solving skills.

Static Website Design

This course helps you build a strong foundation on web technologies such as HTML, CSS. With this, you will create and publish simple and beautiful websites from scratch.

Software Development Fundamentals

- Importance of Frontend
- Fundamentals
  - Syntax
  - Debugging
  - Tweaking Code

HTML Basics

- Getting Started
- HTML Elements
- HTML Headings
- HTML Paragraphs
- HTML Button
- HTML Attributes
- HTML Images
- HTML Hyperlinks
- HTML Containers
- HTML Lists

CSS Basics

- CSS Rulesets
- CSS Properties
- CSS Colors
- CSS Units
- CSS Box Model
- CSS Margins
- CSS Paddings
- CSS Borders

Bootstrap Components

- Carousel
- Embedding Videos

Course Project

Tourism Website

Build your Tourism Website by using HTML5, CSS3 and Bootstrap

Responsive Website Design

This course helps you build a strong foundation on web technologies such as HTML, CSS, Media Queries, and Flexbox. With this, you can create a responsive web application which runs smoothly across all the devices like desktop, tablet, and mobile.

Intermediate CSS

- Block vs inline elements
- CSS Selectors
  - Class Selector
  - Id Selector
  - Type Selector
  - CSS Specificity
  - CSS Inheritance
  - CSS Cascading

Course Project

Food Munch

Build a responsive Food Munch website using HTML5, CSS3 and Bootstrap Grid System.

Bootstrap

- Bootstrap Grid System
  - Container
  - Row
  - Column
- Bootstrap Utilities
  - Display Utilities
  - Flex Utilities
  - Sizing Utilities
  - Spacing Utilities

- Navbar
- Buttons
- Colors

Course Project

Ecommerce Website

Build a responsive Ecommerce website using HTML5, CSS3 and Bootstrap Grid System

Programming Foundations with Python

You will learn the fundamental concepts of programming and gain the confidence to code in Python. You will learn to write programs and use the right data structures to solve problems and build modular software with Object-Oriented Principles.

Fundamentals of Programming

- Operators, Datatypes & Variables
- Strings & Numbers
- Conditional Statements
- Loops
- String Methods
- Functions

Introduction to Databases

Learn about the incredibly prevalent databases today. Through this course, you'll develop strong fundamentals and be proficient in concepts related to Databases and DBMS.
Most importantly, you'll also be able to perform powerful queries on databases using SQL.

Relational Databases

- Introduction
- SQL
- Aggregation, Relationships, Join
- Normalisation & Advanced SQL
- Querying
- ACID Properties



Data Analytics

Build a strong understanding of data analysis techniques, tools and methodologies. Become an expert in uncovering insights and patterns from complex data sets. Create a portfolio of projects that describe your abilities and skills in data analysis.

Introduction to Data Analytics

- Overview of Data Analytics
- Opportunities and Careers paths in Data Analytics
- Roles and responsibilities of a Data Analyst
- Data Analytics Case Studies

Data Visualization

- Fundamentals of Data Visualization
- Introduction to Power BI
- Data Visualization using Power BI

Advanced-Data Visualization

- Slicers and Filters in Power BI
- Interactive Visualisations in Power BI
- Creating Paginated Reports
- Creating Dashboards in Power BI

Data Cleaning & Transformation using Excel / Power Query

- Data Cleaning Techniques
- Data Transformation Techniques
- Introduction to Power Query
- Data Types and Filters in Power Query

- Inbuilt Column and Row Transformations
- Creating a Query in Power Query
- Combining Two Data Sets

Data Modelling & DAX

- Introduction and Techniques to Data Modelling
- Creating Measures in DAX
- DAX Functions

Publishing Your Dashboards

- Introduction to Power BI Service
- Collaboration using Power BI
- Creating Dashboards using Power BI Cloud/Service
- Publishing Your Dashboard

Data Analysis using Python Libraries

- Introduction to NumPy and Pandas
- Indexing and Slicing NumPy arrays
- Indexing and Filtering Pandas data frames and series
- Modifying Pandas data frames and Series

Data Analytics using Tableau

- Fundamentals of Tableau
- Essential Design Principles for Visualization with Tableau
- Creating Dashboards and Interactive Reports in Tableau

Capstone Projects

Building Captivating dashboards from different datasets across E-Commerce, Fintech, Health Tech etc.,

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