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Course: Data Science

Duration: 90 Hrs (Changeable) | Fees: Individual / Batch

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- Python/Django Fullstack
- Artificial Intelligence
- Machine Learning
- Data Science
- Software Testing (All)
- Wordpress, Woocommerce
- Digital Marketing, SEO
- Php/MySQL, Laravel
- Flutter, Android, IOS
- Asp.net MVC
- Web Design, Javascript
- Angular JS, React JS
- CCNA, MCSA, CCNP
- AWS, GCP, Azure
- Odoo, SalesForce, Sap
- Microsoft Excel
- Ethical Hacking

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Syllabus on the Next Page ..

Our Head Office: Nestsoft TechnoMaster, Infopark, Cochin - 42, Kerala, India

☎ +91 9895490866   ☎ +91 8301010866   ✉ join@nestsoft.com   🌐 www.nestsoft.com

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MODULE 1

* The Data Science Process

* Apply the CRISP-DM process to business applications

* Wrangle, explore, and analyze a dataset

* Apply machine learning for prediction

* Apply statistics for descriptive and inferential understanding

* Draw conclusions that motivate others to act on your results

MODULE 2

* Communicating with Stakeholders

* Implement best practices in sharing your code and written summaries

* Learn what makes a great data science blog

* Learn how to create your ideas with the data science community

MODULE 3

* Software Engineering Practices

* Write clean, modular, and well-documented code

* Refactor code for efficiency

* Create unit tests to test programs

* Write useful programs in multiple scripts

* Track actions and results of processes with logging

* Conduct and receive code reviews

MODULE 4

* Object Oriented Programming

* Understand when to use object oriented programming

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* Build and use classes

* Understand magic methods

* Write programs that include multiple classes, and follow good

* code structure

* Learn how large, modular Python packages, such as pandas

* and scikit-learn, use object oriented programming

* Portfolio Exercise: Build your own Python package

MODULE 5

* Web Development

* Learn about the components of a web app

* Build a web application that uses Flask, Plotly, and the

* Bootstrap framework

* Portfolio Exercise: Build a data dashboard using a dataset of

* your choice and deploy it to a web application

MODULE 6

* ETL Pipelines

* Understand what ETL pipelines are

* Access and combine data from CSV, JSON, logs, APIs, and databases

* Standardize encodings and columns

* Normalize data and create dummy variables

* Handle outliers, missing values, and duplicated data

* Engineer new features by running calculations

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✳ â€¢ Build a SQLite database to store cleaned data

MODULE 7

✳ Natural Language Processing

✳ Prepare text data for analysis with tokenization,

✳ lemmatization, and removing stop words

✳ Use scikit-learn to transform and vectorize text data

✳ Build features with bag of words and tf-idf

✳ Extract features with tools such as named entity

✳ recognition and part of speech tagging

✳ Build an NLP model to perform sentiment analysis

MODULE 8

✳ Machine Learning Pipelines

✳ Understand the advantages of using machine learning pipelines

✳ to streamline the data preparation and modeling process

✳ Chain data transformations and an estimator with

✳ scikit learns Pipeline

✳ Use feature unions to perform steps in parallel and create

✳ more complex workflows

✳ Grid search over pipeline to optimize parameters for entire workflow

✳ Complete a case study to build a full machine learning pipeline that

✳ prepares data and creates a model for a dataset

MODULE 9

* Experiment Design

* Understand how to set up an experiment, and the ideas associated

* with experiments vs. observational studies

* Defining control and test conditions

* Choosing control and testing groups

MODULE 10

* Statistical Concerns of Experimentation

* Applications of statistics in the real world

* Establishing key metrics

* SMART experiments: Specific, Measurable, Actionable, Realistic, Timely

MODULE 11

* A/B Testing

* How it works and its limitations

* Sources of Bias: Novelty and Recency Effects

* Multiple Comparison Techniques (FDR, Bonferroni, Tukey)

* Portfolio Exercise: Using a technical screener from Starbucks

* to analyze the results of an experiment and write up your findings

MODULE 12

* Introduction to Recommendation Engines

* Distinguish between common techniques for creating recommendation

* engines including knowledge based, content based, and collaborative

* filtering based methods.

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✳ Implement each of these techniques in python.

✳ List business goals associated with recommendation engines,

✳ and be able to recognize which of these goals are most easily met with existing

✳ recommendation techniques.

MODULE 13

✳ Matrix Factorization for Recommendations

✳ Understand the pitfalls of traditional methods and pitfalls of measuring

✳ the influence of recommendation engines under traditional regression

✳ and classification techniques.

✳ Create recommendation engines using matrix factorization and FunkSVD

✳ Interpret the results of matrix factorization to better understand latent

✳ features of customer data

✳ Determine common pitfalls of recommendation engines like the cold start problem

✳ and difficulties associated with usual tactics for assessing

✳ the effectiveness of recommendation engines using usual techniques,

✳ and potential solutions.

(Click on Course for more details)

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- Thank You -

N.B:This syllabus is not final and can be customized as per requirements / updates.

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