

About Codersarts Training



Codersarts Training is a division of Codersarts that provides training services on a variety of programming languages and technologies. The company's team of experienced trainers can help individuals and businesses of all sizes to learn new skills and improve their existing skills.

Codersarts Training offers a variety of services, including:

- **1:1 Training and Tutoring:** Codersarts offers on-demand 1:1 training and tutoring in a variety of programming languages and technologies. This is a great option for students, developers, and anyone else who wants to learn new skills or improve their existing skills.
- **Programming Assignment Help:** Codersarts can help you with your programming assignments, homework, and final year projects. They can also help you with general debugging and problem-solving.
- **Online Courses:** Codersarts offers a variety of online courses in programming languages, web development, and other related topics. These courses are self-paced and can be taken from anywhere in the world.
- **Mentorship:** Codersarts offers mentorship programs to help students and developers advance their careers. Mentors provide guidance and support on a variety of topics, such as skill development, job search, and career planning.

Websites: www.Codersarts.com | www.training.codersarts.com | www.ai.codersarts.com

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- **Corporate Training:** Codersarts offers corporate training programs to help businesses train their employees on new technologies and programming languages. These programs can be customized to meet the specific needs of each business.
- **Live Project Training:** This type of training involves working on real-world projects with experienced instructors. This is a great way to gain practical experience and to learn how to apply your skills to real-world problems.

If you are serious about learning to code and starting your career as a software developer, we highly recommend that you consider live project training. It is a great way to gain practical experience, to learn from experts, and to build your portfolio.

Here is a list of in-demand tech skills for course training

- Programming Languages: Python, Java, JavaScript, C/C++, and Go
- Web Development
- Mobile Development
- Cloud Computing
- Data Science
- Machine Learning
- Artificial Intelligence

Please note that this is just a small sample of the many in-demand tech skills. There are many other skills that are valuable in the tech industry, such as cybersecurity, DevOps, and IT support.

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Student Marks Prediction Using Linear Regression

About the Course:

This project-based course is designed for beginners looking to explore the world of data science and machine learning. In this course, you will learn to predict student marks based on the number of hours they study. Using the power of simple linear regression and Python programming, you will uncover the relationships between study hours and academic performance. By the end of this course, you'll have the skills and knowledge to perform your own data analysis and make predictions in various domains.

Learning Outcomes:

Upon completing this course, students will be able to:

1. Understand the fundamentals of simple linear regression and its application in predictive modeling.
2. Import, preprocess, and visualize data using Pandas, NumPy, Seaborn, and Matplotlib.
3. Split datasets into training and testing sets for model evaluation.
4. Build and train a linear regression model to predict student marks.
5. Evaluate model performance using metrics like mean absolute error.
6. Apply data visualization techniques to understand the relationship between study hours and scores.
7. Make accurate predictions for student marks based on study hours.

Prerequisites:

No prior knowledge of data science or machine learning is required. This course is designed for beginners with a basic understanding of Python programming.

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Libraries and Programming Language Used:

- Python
- Pandas
- NumPy
- Seaborn
- Matplotlib
- Scikit-Learn

Course Syllabus:

Lecture 1: Defining Objective - What We Aim to Accomplish

- Understanding the Problem Statement
- Defining the Objective of the Course
- Identifying the Predictive Modeling Task

Lecture 2: Setting the Stage - Importing Essential Libraries

- Introduction to Python for Data Analysis
- Importing Pandas, NumPy, Seaborn, and Matplotlib
- Overview of Key Python Libraries

Lecture 3: Loading Data - Your Gateway to Analysis

- Data Acquisition and Sources
- Importing Data into Python
- Exploring the Dataset: Initial Examination

Lecture 4: Unearthing Insights with Exploratory Data Analysis

- Data Exploration Techniques
- Data Cleaning and Handling Missing Values
- Data Visualization with Seaborn and Matplotlib
- Identifying Patterns and Trends in the Data

Lecture 5: Feature Engineering and Model Training

- Feature Selection and Engineering
- Introduction to Linear Regression
- Data Preparation for Model Training
- Building and Training the Linear Regression Model

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Lecture 6: Assessing Model Performance

- Model Evaluation Metrics
- Splitting Data into Training and Testing Sets
- Evaluating the Model's Performance
- Interpreting Mean Absolute Error

Lecture 7: Making Predictions - From Input to Output

- Predicting Student Marks with Trained Model
- Applying Predictive Modeling in Real-Life Scenarios
- Understanding Model Predictions and Interpretability