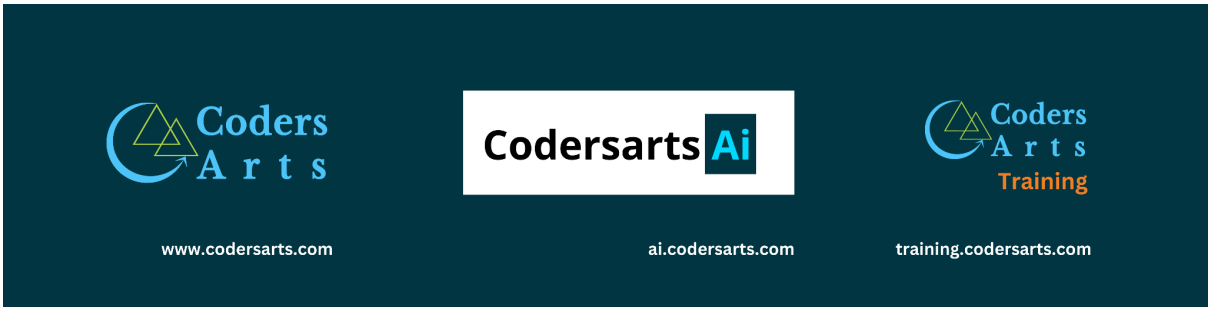
About Codersarts Training



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.
- **Corporate Training:** Codersarts offers corporate training programs to help businesses train their employees on new technologies and programming

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

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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.

Housing Price Prediction

About the Course:

The "Beginner's Guide to Housing Price Prediction" is a project-based course that aims to introduce beginners to the field of predictive modeling and data analysis using real-world housing price data. In this course, participants will learn the fundamentals of data analysis, feature engineering, and regression modeling through hands-on experience. The course focuses on predicting housing prices based on various features such as area, number of bedrooms, bathrooms, and more. By the end of the course, participants will have the skills to build and evaluate regression models for predicting housing prices.

Learning Outcomes:

Upon completing this course, participants will be able to:

- Define the objective of a predictive modeling task and understand its real-world applications.
- Import essential libraries for data analysis and modeling in Python.
- Load and preprocess datasets, handling missing data and data exploration.
- Perform exploratory data analysis (EDA) to uncover insights and patterns in the data.
- Engage in feature engineering techniques to prepare data for modeling.
- Develop and train regression models to predict housing prices.
- Evaluate model performance using metrics like R-squared and RMSE.
- Make predictions using trained models for real-world scenarios.

Prerequisites:

This course is designed for beginners, and there are no strict prerequisites. However, participants should have a basic understanding of programming concepts and be familiar with Python. Knowledge of fundamental statistics and data manipulation using Pandas is beneficial but not mandatory.

Libraries and Programming Language Used:

- **Python**: The primary programming language for data analysis and modeling.
- **Libraries**: Pandas, NumPy, Matplotlib, Seaborn for data manipulation, visualization, and analysis. Scikit-Learn for machine learning and regression modeling.

Course Syllabus:

Lecture 1: Objective
- Defining the objective of the course and understanding its real-world applications.

Lecture 2: Loading Libraries
- Importing essential libraries in Python for data analysis and modeling.

Lecture 3: Loading Data: Your Gateway to Analysis
- Loading and exploring the housing dataset.
- Data dictionary for understanding dataset columns.

Lecture 4: Exploring Data Insights
- Statistical summary and initial data exploration.
- Univariate analysis of numerical and categorical variables.

Lecture 5: From Raw to Refined: Feature Engineering Techniques
- Scaling numerical columns for model training.
- Encoding categorical columns using one-hot encoding and label encoding.

Lecture 6: Model Development and Performance Assessment
- Introduction to regression models (Linear Regression, Random Forest Regressor, Support Vector Regressor).
- Model development and training.
- Evaluation of model performance using R-squared and RMSE.

Lecture 7: Turning Data into Predictions
- Making predictions using trained models.
- Applying scaling and encoding to new data instances for prediction.
- Interpretation of prediction results.
