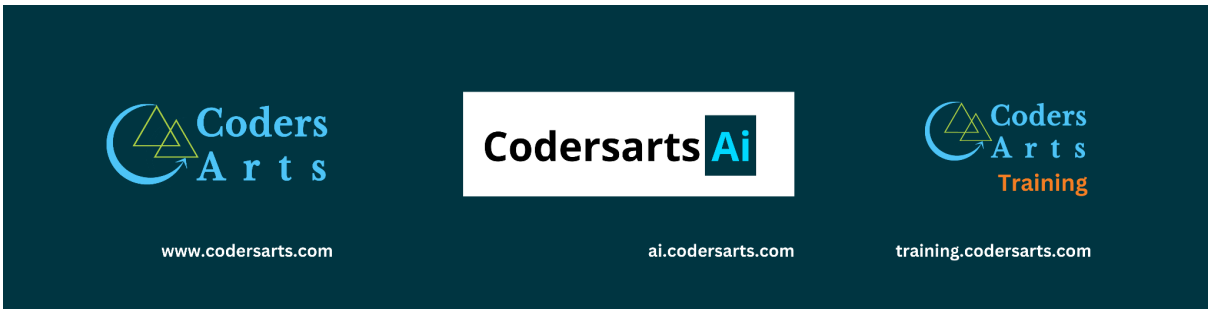
About Codersarts Training



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.

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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.

Sentiment Analysis (using Machine Learning)

About the course:

In this project-based course, participants will explore how to automatically determine the sentiment expressed in movie reviews using machine learning techniques and NLP tools. Students will engage in practical hands-on exercises, working with real movie review datasets, and learn to build sentiment analysis models that can classify text as positive, negative, or neutral. By the end of the course, participants will have the skills to develop sentiment analysis solutions and gain valuable insights into the sentiments of moviegoers.

Learning Outcomes:

Upon completing this course, participants will:

- Understand the fundamentals of sentiment analysis and its applications.
- Gain hands-on experience with Python programming for NLP and machine learning.
- Learn how to acquire, preprocess, and analyze textual data for sentiment analysis tasks.
- Develop sentiment analysis models that can classify movie reviews into different sentiment categories.
- Evaluate the performance of sentiment analysis models using appropriate metrics.
- Apply sentiment analysis techniques to real-world movie review datasets.

Prerequisites:

- Basic programming skills in Python.
- Familiarity with fundamental NLP concepts, though not mandatory, will be helpful.
- Access to a Python environment with the required libraries for NLP and machine learning.

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Libraries and Programming Language Used:

- Python for coding and scripting.
- Common NLP libraries such as NLTK or spaCy for text processing.
- Machine learning frameworks like scikit-learn for building sentiment analysis models.

Course Syllabus:

Introduction to Sentiment Analysis
- Understanding the importance and applications of sentiment analysis.
- Overview of sentiment classification (positive, negative, neutral).

Setting Up the Development Environment
- Installing and configuring the necessary Python libraries.
- Preparing the development environment for sentiment analysis tasks.

Data Collection and Preprocessing
- Acquiring movie review datasets.
- Cleaning and preprocessing textual data for analysis.

Text Tokenization and Feature Extraction
- Tokenizing text into words or subword units.
- Creating feature representations of text for machine learning.

Building Sentiment Analysis Models
- Introduction to machine learning algorithms for sentiment classification.
- Implementing and training sentiment analysis models.

Model Evaluation
- Assessing model performance using metrics like accuracy, precision, recall, and F1-score.
- Cross-validation techniques for robust evaluation.

Handling Imbalanced Data
- Strategies for dealing with imbalanced sentiment datasets.
- Resampling and weighting techniques.

Real-World Applications

- Applying sentiment analysis models to movie reviews from diverse sources.
- Analyzing and visualizing sentiment trends in moviegoer opinions.