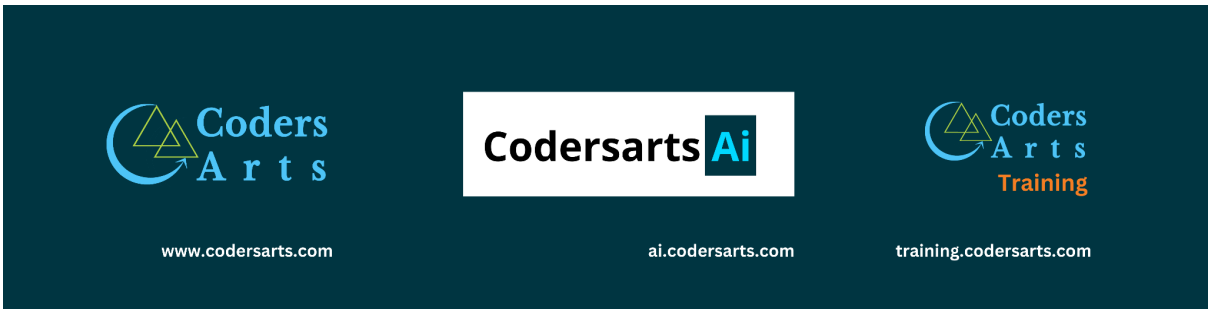
About Codersarts Training



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 LSTMs)

About this course:

This course is a comprehensive program designed for individuals eager to explore the intersection of natural language processing (NLP) and deep learning. In this project-based course, participants will delve into the world of sentiment analysis, focusing on movie reviews.

The course will equip students with the knowledge and hands-on experience needed to build advanced sentiment analysis models using Long Short-Term Memory (LSTM) networks, a type of deep learning architecture. By the end of the course, participants will have the skills to develop sophisticated models capable of discerning the sentiment expressed in movie reviews, from positive and negative to nuanced emotions.

Learning Outcomes:

Upon completing this course, participants will:

- Develop a deep understanding of sentiment analysis and its real-world applications.
- Acquire proficiency in Python programming for NLP and deep learning using LSTMs.
- Master techniques for data preprocessing, tokenization, and sequence padding.
- Learn how to design, build, and train LSTM-based sentiment analysis models.
- Gain expertise in hyperparameter tuning and model optimization.
- Evaluate model performance using industry-standard metrics.
- Apply advanced NLP concepts to analyze sentiment nuances in movie reviews.
- Deploy deep learning models for sentiment analysis in practical applications.

Prerequisites:

- Solid programming skills in Python.
- Basic knowledge of machine learning concepts and NLP fundamentals.

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- Access to a Python development environment with relevant libraries for deep learning, such as TensorFlow or PyTorch.

Libraries and Programming Language Used:

- Python for coding and scripting.
- TensorFlow or PyTorch for building and training deep learning models.
- Common NLP libraries like spaCy for text preprocessing.

Course Syllabus:

Introduction to Sentiment Analysis
- Understanding sentiment analysis and its significance.
- Types of sentiment classification and use cases.

Setting Up the Development Environment
- Installing and configuring Python, TensorFlow/PyTorch, and relevant libraries.
- Preparing the development environment for deep learning projects.

Data Acquisition and Preprocessing
- Gathering movie review datasets.
- Cleaning and preprocessing text data for LSTM model input.

Understanding LSTMs
- Introduction to Long Short-Term Memory networks.
- How LSTMs handle sequence data.

Tokenization and Sequence Padding
- Tokenizing text data into sequences.
- Padding sequences for input to LSTM networks.

Building LSTM-Based Sentiment Analysis Models
- Designing and implementing LSTM architectures for sentiment classification.
- Training LSTM models on movie review datasets.

Model Evaluation and Metrics
- Assessing model performance using metrics like accuracy, precision, recall, and F1-score.

Hyperparameter Tuning and Optimization

- Strategies for optimizing LSTM models.
- Hyperparameter tuning to improve sentiment analysis accuracy.