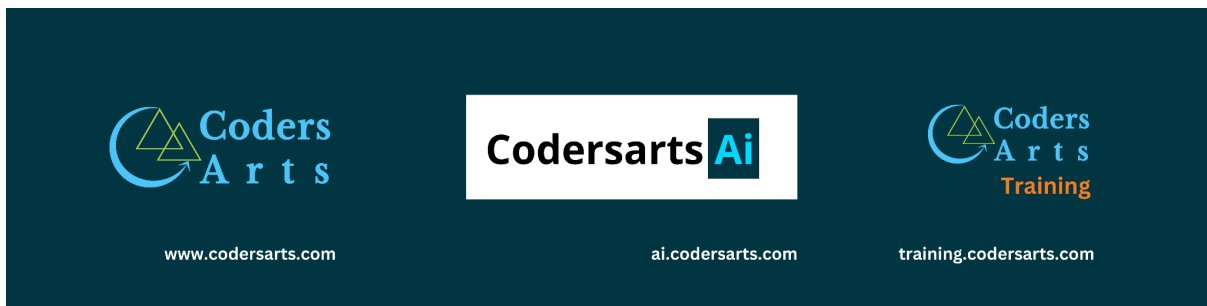


About Codersarts Training



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.

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Face Mask Detection

About the Course:

This course is a specialized project-based course focused on computer vision and deep learning techniques for the detection of face masks in images and videos. Face mask detection has gained significant importance in recent times due to its application in public health, safety, and compliance with health guidelines.

This course aims to provide students with the knowledge and skills required to develop face mask detection systems, which can be used in various scenarios, including public spaces, workplaces, and healthcare facilities. Participants will learn to build and deploy deep learning models that can identify whether individuals in an image or video are wearing face masks or not, contributing to safety measures in a pandemic and beyond.

Learning Outcomes:

Upon successful completion of this course, students will:

- Gain expertise in computer vision and object detection techniques.
- Understand the significance and applications of face mask detection.
- Proficiently program in Python and work with deep learning frameworks.
- Learn data preprocessing and augmentation for training detection models.
- Develop and fine-tune deep neural networks for accurate face mask detection.
- Evaluate model performance using appropriate metrics.
- Implement real-world face mask detection solutions.

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Prerequisites:

- Proficiency in Python programming.
- Basic knowledge of machine learning and deep learning concepts.
- Familiarity with deep learning frameworks like TensorFlow or PyTorch is beneficial but not mandatory.
- Prior experience with computer vision concepts is helpful but not required.

Libraries and Programming Language Used:

- **Programming Language:** Python
- **Deep Learning Framework:** TensorFlow or PyTorch
- **Computer Vision:** OpenCV
- **Numerical Computing:** NumPy
- **Data Visualization:** Matplotlib

Course Syllabus:

Introduction to Face Mask Detection

- Understanding the relevance and applications of face mask detection.
- Overview of object detection techniques.

Setting Up the Development Environment

- Installing Python and essential libraries.
- Configuring the environment for computer vision and deep learning projects.

Exploring Face Mask Detection Datasets

- Introduction to datasets containing images with and without masks.
- Data loading, preprocessing, and annotation.

Data Preprocessing for Face Mask Detection

- Techniques for preparing image data for model training.
- Augmentation strategies to improve model robustness.

Building Face Mask Detection Models

- Creating and training object detection models using CNN architectures.
- Customizing models for specific face mask detection tasks.

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Evaluating Face Mask Detection Model

- Understanding evaluation metrics for object detection accuracy.
- Assessing model effectiveness and limitations.

Real-world Applications and Deployment

- Deploying trained models for real-time face mask detection.
- Integration with cameras and video streams.