

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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AWS REKOGNITION

Introduction to AWS Rekognition

- Overview of AWS Rekognition service
- Capabilities and use cases for image and video analysis
- Introduction to machine learning concepts used in Rekognition

Getting Started with AWS Rekognition

- Setting up AWS Rekognition in the AWS Management Console
- Rekognition API and SDKs overview
- Basic image and video analysis requests

Image Analysis Features

- Object and scene detection
- Facial analysis (detection, recognition, comparison)
- Text detection and extraction
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Video Analysis Features

- Video analysis capabilities (person tracking, face recognition over time)
- Content moderation (detecting inappropriate content)
- Custom labels and moderation policies

Advanced Image and Video Analysis

- Celebrity recognition and indexing
- Label detection and hierarchical taxonomy
- Customizing and training models with custom labels

Integrating Rekognition with Applications

- Using Rekognition with AWS Lambda for serverless applications
- Integrating Rekognition with Amazon S3, Amazon DynamoDB, and other AWS services
- Implementing Rekognition in web and mobile applications

Security and Compliance

- Secure handling of images and videos with Rekognition
- Compliance considerations (GDPR, HIPAA)
- IAM roles and policies for Rekognition access control

Performance Optimization

- Managing Rekognition API calls and rate limits
- Caching and optimizing image and video analysis requests
- Monitoring and optimizing costs

Advanced Image Analysis Techniques

- Fine-grained object detection and localization
- Scene understanding and context extraction
- Multi-label and hierarchical taxonomy support

Custom Model Training with Rekognition Custom Labels

- Creating and training custom image analysis models
- Data preparation and labeling best practices
- Evaluating model performance and iterating on improvements

Video Analysis and Real-time Applications

- Real-time face recognition and tracking in videos
- Activity recognition and event detection
- Implementing multi-frame analysis for complex scenarios

Integrating Rekognition with Machine Learning Services

- Using Rekognition with Amazon SageMaker for model training and deployment
- Enhancing Rekognition capabilities with Amazon Comprehend for natural language processing
- Integrating Rekognition insights with Amazon Personalize for personalized recommendations
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Advanced Security and Compliance Features

- Implementing advanced encryption and data protection measures
- GDPR and HIPAA compliance considerations with Rekognition
- Implementing audit trails and access controls for sensitive data