

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

Revathi Apartments, Ameerpet, 1st Floor, Opposite Annapurna Block, Info

soft it solutions Software Training& Development 905968394,918254087

AUGMENTED REALITY DEVELOPMENT

Introduction to Augmented Reality

- **Overview of Augmented Reality**
 - Definition and history of AR
 - Differences between AR, VR, and MR
- **Applications of AR**
 - Industry use cases: Gaming, Education, Healthcare, Retail, etc.
- **AR Hardware**
 - AR devices: Smartphones, tablets, AR glasses (HoloLens, Magic Leap)
- **AR Software**
 - AR development platforms and tools

AR Development Fundamentals

- **Setting Up the Development Environment**
 - Installation of Unity3D
 - Overview of AR SDKs (ARKit, ARCore, Vuforia)
- **Basic AR Concepts**
 - Understanding 3D space and coordinates
 - Scene setup and management

ARKit and ARCore

- **ARKit (for iOS)**
 - Introduction to ARKit
 - Setting up ARKit in Unity
 - Working with ARKit features: Plane detection, hit testing, light estimation
- **ARCore (for Android)**
 - Introduction to ARCore
 - Setting up ARCore in Unity
 - Working with ARCore features: Environmental understanding, motion tracking, light estimation

Vuforia Engine

- **Introduction to Vuforia**
 - Vuforia features and capabilities
 - Setting up Vuforia in Unity
- **Image and Object Recognition**
 - Implementing image targets and object targets
- **Markerless AR**
 - Ground plane detection and tracking

Advanced AR Development

- **Creating Interactive AR Experiences**
 - Adding interactivity: Touch and gesture recognition
 - Integrating animations and sounds
- **User Interface in AR**
 - Designing user-friendly AR interfaces
 - Best practices for AR UX/UI design

AR and 3D Modelling

- **3D Asset Creation and Optimization**
 - Basics of 3D modelling
 - Importing and optimizing 3D models for AR
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- **Using External Tools**
 - Integration with tools like Blender or Maya

AR Project Development

- **Project Planning and Management**
 - Ideation and conceptualization
 - Designing AR experiences
- **Prototyping and Development**
 - Building a prototype
 - Iterative development process

Testing and Deployment

- **Testing AR Applications**
 - Techniques for testing AR applications
 - Debugging common AR issues
- **Deployment**
 - Preparing AR apps for deployment
 - Publishing AR apps on App Store and Google Play
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Future Trends in AR

- **Emerging Technologies in AR**
 - AR Cloud
 - Persistent AR
 - AR in wearables
- **Career Opportunities in AR**
 - Job roles and skills required
 - Building a portfolio in AR development