Here’s a presentation script for your **SSR using REST API & API Schema Evolution in CSR in React** seminar. You can follow this as you present your slides.

**Presentation Script: SSR Using REST API & API Schema Evolution in CSR in React**

**Slide 1: Title Slide**

**(Greet the audience)**  
"Good [morning/afternoon/evening], everyone! My name is [Your Name], and today I’ll be talking about two important concepts in modern web development: **Server-Side Rendering (SSR) using REST APIs** and **API Schema Evolution in Client-Side Rendering (CSR) in React**.

This seminar will cover how SSR improves performance, how React applications handle API changes, and best practices for maintaining compatibility in evolving APIs."

**Slide 2: Introduction**

"We’ll start with an overview of **Server-Side Rendering (SSR) and Client-Side Rendering (CSR)**, their differences, and their impact on performance.

We’ll also discuss the importance of **REST APIs** in web applications and explore **API Schema Evolution**, which deals with handling changes in API responses without breaking the frontend."

**Slide 3: What is SSR?**

"**Server-Side Rendering (SSR)** is a rendering technique where the server processes the request, fetches data, renders the React component, and then sends a fully generated HTML page to the client.

This approach **improves SEO, initial load time, and performance**, making it a great choice for content-heavy websites and applications that rely on search engine visibility."

**Slide 4: How SSR Works in React?**

"Let’s break down the SSR workflow in React:

1. The client makes a request to the server.
2. The server fetches data from a REST API.
3. The React component is rendered on the server.
4. The fully generated HTML is sent to the browser.
5. The browser hydrates the application, making it interactive."

"This process ensures that users receive a meaningful page quickly, even before JavaScript loads."

**Slide 5: Benefits of SSR with REST API**

"Why should we use SSR with REST APIs?

* **Faster initial page load** – Since the HTML is pre-rendered on the server, users don’t have to wait for JavaScript to process everything.
* **Better SEO** – Search engines can index the content easily.
* **Reduced client-side processing** – Less work for the browser, making it great for low-end devices.
* **Improved performance for dynamic applications** – Useful when dealing with frequently updated content like news, blogs, or e-commerce sites."

**Slide 6: Implementing SSR with REST API in Next.js**

"React itself doesn’t support SSR out of the box, but **Next.js** provides built-in support for SSR.

To fetch data on the server, we use **getServerSideProps()** in Next.js. Here’s how it works:

* The function fetches data from a REST API on the server.
* The data is passed as props to the React component.
* The server sends the fully rendered page to the client.

This ensures that users see fully loaded content immediately upon page load."

**Slide 7: What is API Schema Evolution?**

"Now, let’s talk about **API Schema Evolution**.

APIs change over time as developers add new features, remove outdated fields, or restructure data. However, **these changes can break frontend applications** if not handled correctly.

Some key challenges include:

* Adding/removing fields in API responses.
* Ensuring backward compatibility.
* Managing different versions of the API."

**Slide 8: API Schema Evolution in CSR React Apps**

"In Client-Side Rendering (CSR), React applications **fetch API data dynamically**, meaning any change in API schema can break the app.

To handle API Schema Evolution effectively:

* **Use TypeScript or PropTypes** – This ensures that the expected data structure is maintained.
* **Implement API Adapters** – These act as a middleware between the API and frontend, mapping old responses to the new format.
* **Feature Flags** – Used to gradually roll out API changes without breaking existing users."

**Slide 9: Best Practices for SSR and API Evolution**

"Here are some best practices to follow:

1. **Cache API responses** – Improves SSR performance and reduces load on the server.
2. **Use API versioning** – Helps maintain backward compatibility.
3. **Implement graceful fallbacks** – Ensure that missing data doesn’t crash the app.
4. **Maintain clear communication** – Keep frontend and backend teams aligned when making API changes."

"By following these practices, we can create scalable and resilient applications."

**Slide 10: Conclusion**

"To summarize:

* **SSR with REST API** improves SEO, performance, and user experience.
* **API Schema Evolution** is critical for handling API changes without breaking the frontend.
* **Best practices** such as caching, API versioning, and feature flags ensure stability in both SSR and CSR approaches."

**Closing Statement**

"Thank you for your time! I hope this seminar helped you understand SSR, REST APIs, and API Schema Evolution in React applications.

If you have any questions, feel free to ask!"

This script will help you confidently present your seminar. Let me know if you need any modifications! 😊

### Script for Presenting the PPT on "AI for Economic Growth and GDP Enhancement"

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#### \*\*Slide 1: Introduction\*\*

\*\*Script:\*\*

"Good [morning/afternoon], everyone. Today, I’m excited to talk about a topic that’s shaping the future of economies worldwide – \*\*Artificial Intelligence (AI)\*\*. AI is no longer just a buzzword; it’s a transformative technology that’s driving productivity, innovation, and efficiency across industries.

AI helps automate processes, improve decision-making, and even create entirely new business models. By integrating AI into sectors like healthcare, agriculture, manufacturing, and finance, countries can boost their \*\*Gross Domestic Product (GDP)\*\* through increased efficiency, reduced costs, and better-quality outputs.

In this seminar, we’ll explore how AI is accelerating economic growth, optimizing resources, and fostering sustainable development in the digital era. Let’s dive in!"

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#### \*\*Slide 2: Literature Survey\*\*

\*\*Script:\*\*

"Before we get into the details, let’s take a quick look at what this seminar covers. We’ll explore \*\*AI’s impact on key sectors of the Indian economy\*\* and its potential to drive future growth. We’ll also discuss the challenges in implementing AI and the policy recommendations needed to overcome them.

This seminar is based on research from global institutions like McKinsey, NASSCOM, and the World Economic Forum, which highlight the immense potential of AI for economic growth."

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#### \*\*Slide 3: AI's Contribution to Economic Growth\*\*

\*\*Script:\*\*

"Now, let’s talk about how AI is contributing to economic growth.

According to the \*\*McKinsey Global Institute\*\*, AI could add a staggering \*\*$15.7 trillion\*\* to the global economy by \*\*2035\*\*. And India is expected to gain a significant share of this growth.

NASSCOM estimates that AI will contribute \*\*$967 billion\*\* to India’s economy by \*\*2035\*\*, which will support India’s goal of achieving a \*\*$5 trillion GDP\*\* by \*\*2025\*\*.

But it’s not just about money. The \*\*World Economic Forum\*\* predicts that AI could create \*\*40 million new jobs\*\* in India by \*\*2030\*\*, boosting economic productivity and competitiveness.

So, AI isn’t just a tool for businesses; it’s a driver of economic transformation."

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#### \*\*Slide 4: Sectoral Advancements through AI\*\*

\*\*Script:\*\*

"Let’s now look at how AI is transforming key sectors in India.

In \*\*healthcare\*\*, AI is revolutionizing diagnostics, telemedicine, and medical imaging, making healthcare more accessible, especially in rural areas.

In \*\*agriculture\*\*, AI-driven predictive analytics and precision farming are helping farmers optimize crop yields and reduce losses.

In \*\*smart mobility and logistics\*\*, AI is enhancing autonomous transportation, predictive maintenance, and traffic management systems.

In \*\*retail\*\*, AI-powered recommendation engines and personalized shopping experiences are driving efficiency and customer satisfaction.

And in \*\*manufacturing\*\*, AI-driven automation and quality control are reducing costs and improving efficiency.

These advancements are just the beginning. AI is reshaping industries in ways we couldn’t have imagined a decade ago."

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#### \*\*Slide 5: More Sectoral Advancements\*\*

\*\*Script:\*\*

"AI’s impact doesn’t stop there.

In the \*\*energy sector\*\*, AI is optimizing power distribution, improving renewable energy storage, and enabling predictive maintenance for grid infrastructure.

In \*\*smart cities\*\*, AI is facilitating traffic management, enhancing security, and optimizing infrastructure for sustainable urban development.

And in \*\*education\*\*, AI-based personalized learning platforms and intelligent tutoring systems are improving accessibility and learning outcomes.

These advancements show that AI is not just a tool for businesses; it’s a catalyst for societal progress."

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#### \*\*Slide 6: Job Creation Opportunities\*\*

\*\*Script:\*\*

"One of the most exciting aspects of AI is its potential to create jobs.

According to \*\*NASSCOM\*\*, AI is projected to generate \*\*1 million AI-related jobs\*\* in India’s IT sector by \*\*2025\*\*.

The \*\*McKinsey Global Institute\*\* predicts that AI adoption in the \*\*manufacturing sector\*\* could create \*\*950,000 new jobs\*\* by \*\*2030\*\*.

The \*\*World Economic Forum\*\* estimates that AI will generate \*\*1 million jobs\*\* in the \*\*healthcare sector\*\* by \*\*2030\*\*.

Even in \*\*education\*\*, AI-driven platforms like \*\*Byju’s\*\* are reshaping the sector and creating new job opportunities in the EdTech industry.

By \*\*2030\*\*, the creation of \*\*7.95 million AI-related jobs\*\* in India could contribute approximately \*\*$119.25 billion\*\* to the country’s GDP.

So, while some fear that AI will replace jobs, it’s clear that it will also create millions of new opportunities."

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#### \*\*Slide 7: Challenges in AI Implementation\*\*

\*\*Script:\*\*

"However, despite its potential, AI adoption in India faces several challenges.

First, there are \*\*infrastructural deficits\*\*. AI requires high-performance computing, reliable internet connectivity, and cloud storage, which are still lacking in many parts of the country.

Second, there’s a \*\*shortage of skilled professionals\*\*. India needs more AI experts, which means we need to focus on upskilling and educational reforms.

Third, there are \*\*ethical and regulatory concerns\*\*. Issues like data privacy, bias in AI models, and the lack of clear legal frameworks need to be addressed to ensure responsible AI deployment.

Finally, there are \*\*financial constraints\*\*. The high costs of AI infrastructure and limited funding for startups pose significant barriers to widespread adoption.

These challenges need to be tackled to fully realize AI’s potential."

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#### \*\*Slide 8: Policy Recommendations\*\*

\*\*Script:\*\*

"To maximize AI’s benefits while addressing these challenges, we need strong policy interventions.

First, there needs to be \*\*increased investment in AI infrastructure and research\*\*.

Second, we need \*\*enhanced AI education programs and skill development initiatives\*\* to bridge the talent gap.

Third, we must develop \*\*ethical AI frameworks and data protection policies\*\* to ensure responsible AI use.

And finally, the government should provide \*\*incentives for AI-driven startups\*\* and encourage \*\*public-private partnerships\*\* to foster innovation.

These policies will help create an environment where AI can thrive and benefit everyone."

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#### \*\*Slide 9: Conclusion\*\*

\*\*Script:\*\*

"In conclusion, AI has the potential to significantly boost India’s economic growth and enhance GDP. However, to achieve this, we need to overcome infrastructural, educational, and ethical barriers.

Government policies, industry collaborations, and strategic investments will play a crucial role in ensuring AI’s widespread and equitable impact on India’s economy.

AI is not just a technology; it’s a tool for building a better future. Let’s work together to make the most of it."

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#### \*\*Slide 10: Thank You!\*\*

\*\*Script:\*\*

"Thank you for your attention! I hope this presentation gave you a clear understanding of how AI is shaping economic growth and GDP enhancement.

If you have any questions or thoughts, I’d be happy to discuss them. Let’s continue the conversation on how we can harness AI for a brighter future.

Thank you!"

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### Final Notes:

- \*\*Tone:\*\* Keep the tone conversational and enthusiastic, especially when discussing AI’s potential and job creation.

- \*\*Pauses:\*\* Pause briefly after key points to let the audience absorb the information.

- \*\*Engagement:\*\* Encourage questions and discussions, especially during the conclusion and Q&A slide.

Good luck with your presentation! 😊