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Module 6 of Path: Deep Dive into System Design Interview

Machine Learning System Design

Module Overview

Machine learning system design is an important component of any machine learning interview. The ability to address problems, identify requirements, and discuss trade-offs can help us stand out among hundreds of other candidates. This module will discuss model techniques, along with best practices in applying scalable machine learning models in production. Once we're done with this module, we'll be able to apply and leverage knowledge from top researchers at tech companies. We'll have an up-to-date knowledge of model techniques from hundreds of the latest research and industry papers. We might even be able to impress interviewers once we've gone through the lessons of this module.

Module Objectives

Improve your machine learning system design skills.

Apply the best techniques in order to structure and drive your interview.

Get a handle on major components of machine learning systems.

Start Learning

21 Lessons

6 Quizzes

4 Code Snippets

62 Illustrations

Module 5

Contents (Module 6)

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1. Machine Learning Primer

○
  Introduction

○
  Feature Selection and Feature Engineering

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  Training Pipeline

○
  Inference

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  Metrics Evaluation

2. Video Recommendation

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  Problem Statement and Metrics

○
  Candidate Generation and Ranking Model

○
  Video Recommendation System Design

3. Feed Ranking

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  Problem Statement and Metrics

○
  Feed Ranking Model

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  Feed Ranking System Design

4. Ad Click Prediction

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  Problem Statement and Metrics

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  Ad Click Prediction Model

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  Ads Recommendation System Design

5. Rental Search Ranking

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  Problem Statement and Metrics

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  Booking Model

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  Rental Search Ranking System Design

6. Estimate Food Delivery Time

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  Problem Statement and Metrics

◯
  Estimated Delivery Model

◯
  Estimate Food Delivery System Design

ASSESSMENT 1

Machine Learning Knowledge

ASSESSMENT 2

Machine Learning Model Diagnosis

9. Conclusion

○

Final Remarks

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