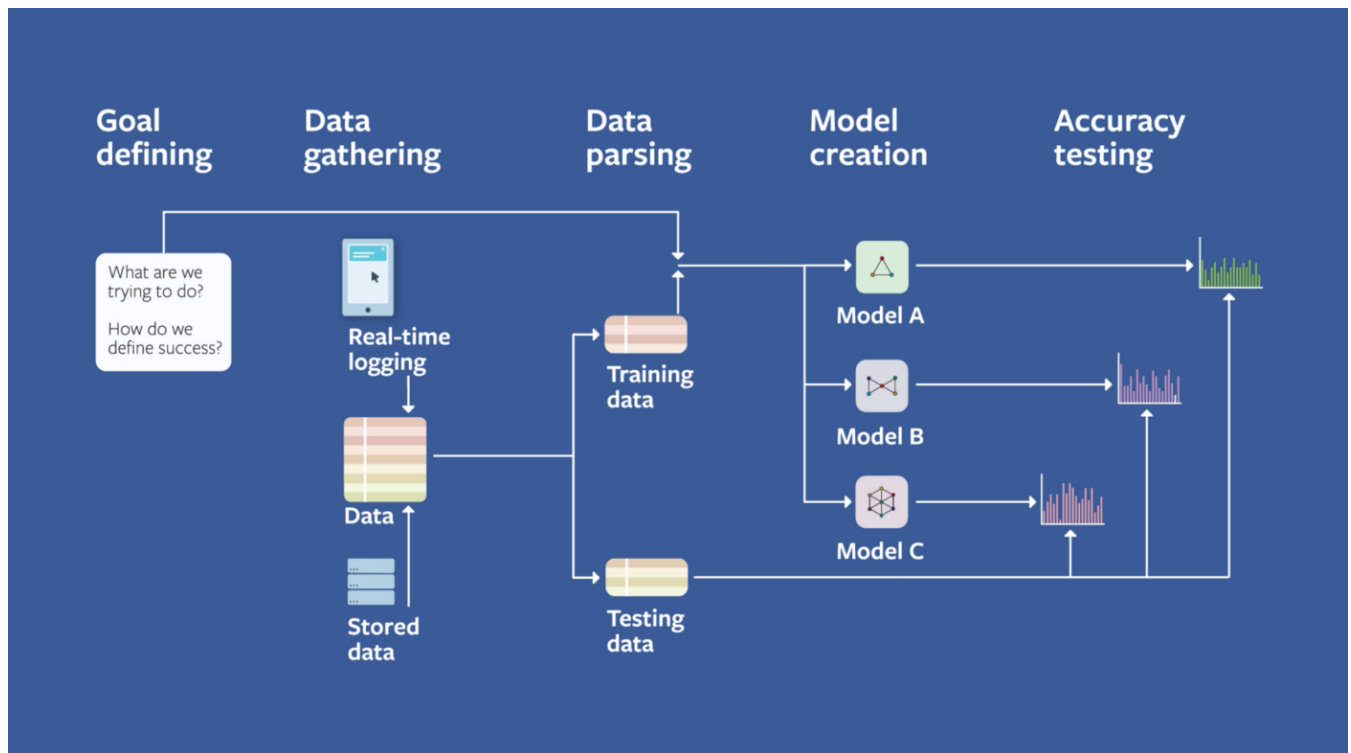This is your **last** free story this month. Sign up and get an extra one for free.

Machine Learning System Design

Rico Meinl
Mar 3 · 3 min read ★
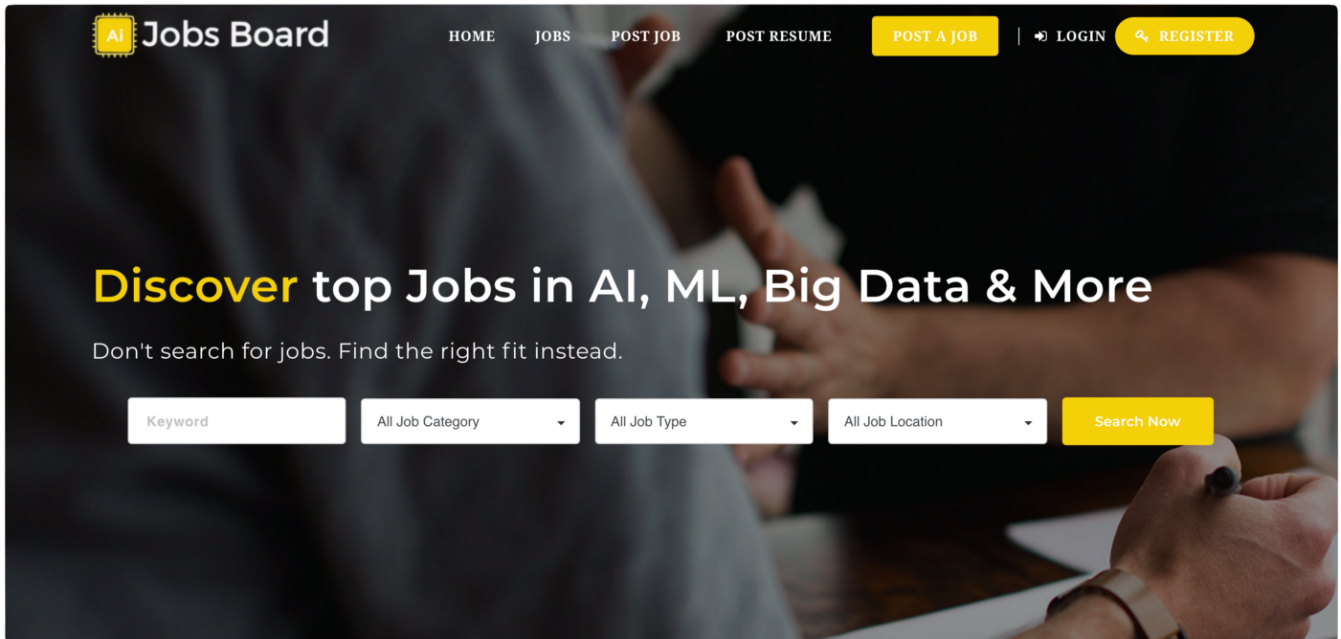

Facebook Field Guide to Machine Learning

While preparing for job interviews I found some great resources on Machine Learning System designs from Facebook, Twitter, Google, Airbnb, Uber, Instagram, Netflix, AWS and Spotify.

I find this to be a fascinating topic because it's something not often covered in online courses.

Twitter

- Using Deep Learning at Scale in Twitter's Timelines

- Improving engagement on digital ads with delayed feedback

- Embeddings@Twitter

AI Jobs

Instagram

- Lessons Learned at Instagram Stories and Feed Machine Learning

- Powered by AI: Instagram's Explore recommender system

Facebook

- Deep Entity Classification: An abusive account detection framework

- New progress in using AI to detect harmful content

Uber Eats

- Food Discovery with Uber Eats: Building a Query Understanding Engine

- Food Discovery with Uber Eats: Recommending for the Marketplace

- Food Discovery with Uber Eats: Using Graph Learning to Power Recommendations

Uber

- Applying Customer Feedback: How NLP & Deep Learning Improve Uber's Maps

- Forecasting at Uber: An Introduction

Airbnb

- Using Machine Learning to Predict Value of Homes On Airbnb

- Listing Embeddings in Search Ranking

- Learning Market Dynamics for Optimal Pricing

- Categorizing Listing Photos at Airbnb

- Applying Deep Learning To Airbnb Search

- Discovering and Classifying In-app Message Intent at Airbnb

Airbnb Experiences

- Machine Learning-Powered Search Ranking of Airbnb Experiences

Top 4 Most Popular Ai Articles:

1. How To Choose Between Angular And React For Your Next Project

2. Are you using the term 'AI' incorrectly?

3. 6 AI Subscriptions to keep you Informed

4. Artificial Intelligence Conference

Linkedin

- An Introduction to AI at LinkedIn

- Fairness, Privacy, and Transparency by Design in AI/ML Systems

- Communities AI: Building Communities Around Interests on LinkedIn

- Preventing abuse using unsupervised learning

Google

- Jeff Dean On Large-Scale Deep Learning At Google

Netflix

- A Multi-Armed Bandit Framework for Recommendations at Netflix

Spotify

- For Your Ears Only: Personalizing Spotify Home with Machine Learning

- How Does Spotify Know You So Well?

. . .

In addition, here are some resources on a more general process. Starting with the book Data Science for Business which explains the CRISP-DM (Cross Industry Standard Process for Data Mining).

The process involves six stages:

1. Business Understanding

2. Data Understanding

3. Data Preparation

4. Modelling

5. Evaluation

6. Deployment

Here is a more high-level breakdown on how to apply CRISP-DM on AWS.

Facebook also created a video series where they go into depth in how they structure Machine Learning Projects with the Facebook Field Guide to Machine Learning.

Don't forget to give us your 👏 !

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