

A decorative image on the left side of the slide showing a bundle of fiber optic cables. The cables are illuminated from within, creating a series of bright, warm orange and yellow light points that trail off into the distance, giving a sense of depth and connectivity.

# Deep Learning Alpha

**Project Proposal**

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# Deeplearning.ai's Mission

- Deeplearning.ai seeks to make a **world-class AI education** accessible to people around the globe so that we can all benefit from an AI-powered future.
- Deeplearning.ai's mission is our mission.

# Project Summary

- Deeplearning.ai develops courses on key applications of AI.
- Their database includes approximately 300k individuals.

Each individual's record has activity like opening marketing emails, viewing web pages, and registering for events. Some also have data on their location and job title, and newsletter subscriptions: The Batch, Events and Course Announcements.

- Deeplearning wants to understand the journey a potential student takes from initial registration to course completion.
  - **A user's journey can include:**
    - Page views
    - Interaction with marketing emails across mailing lists mailing lists
    - Registration for local community meetups, expert panels and learner community events events

# Scope of Work

- Understanding the problem and potential solutions

- Data sets analysis
- Create Dictionary
- Identify and close any information gaps
- Read relevant research papers
- Develop initial product design
- Define benchmarking baseline

- Develop product prototype

- Build Data Collection
- Build Data Cleaning Module
- Build Feature Analysis and Selection Module
- Build Machine Learning Models
- Build Reporting Module
- Test and validate prototype baseline performance

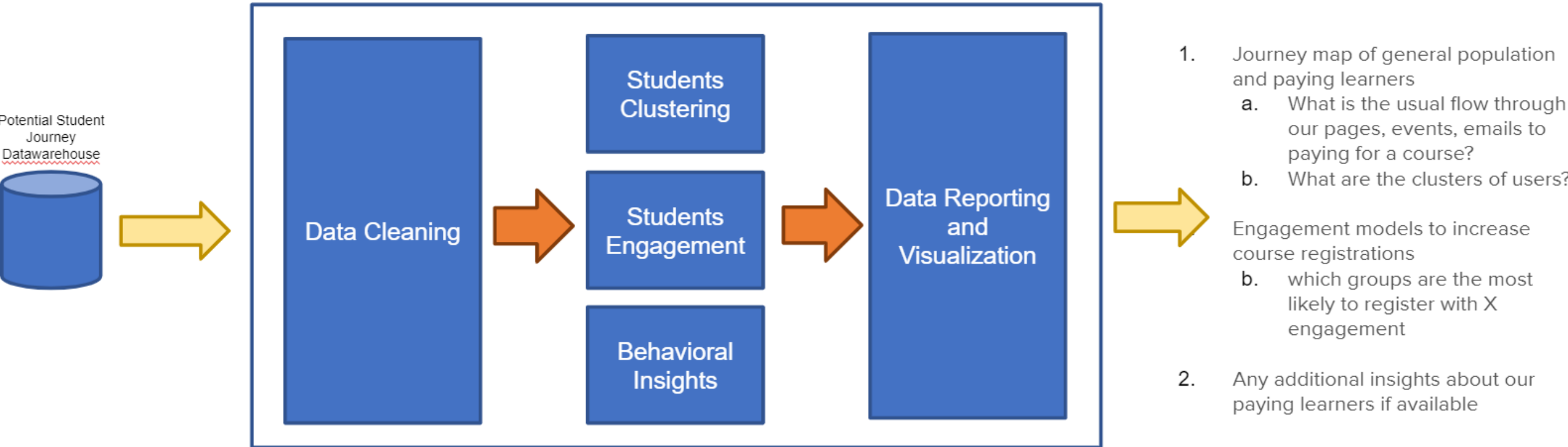
- Build, Test and Run Product Version 1 Pipeline

- Build Product Version 1
- Test Version with fresh data
- Production deployment
- Measure Product Version 1 performance

- Product presentation and delivery

- Production overview and training
- Product acceptance (User Acceptance Testing)
- Project wrap-up
- Final project presentation

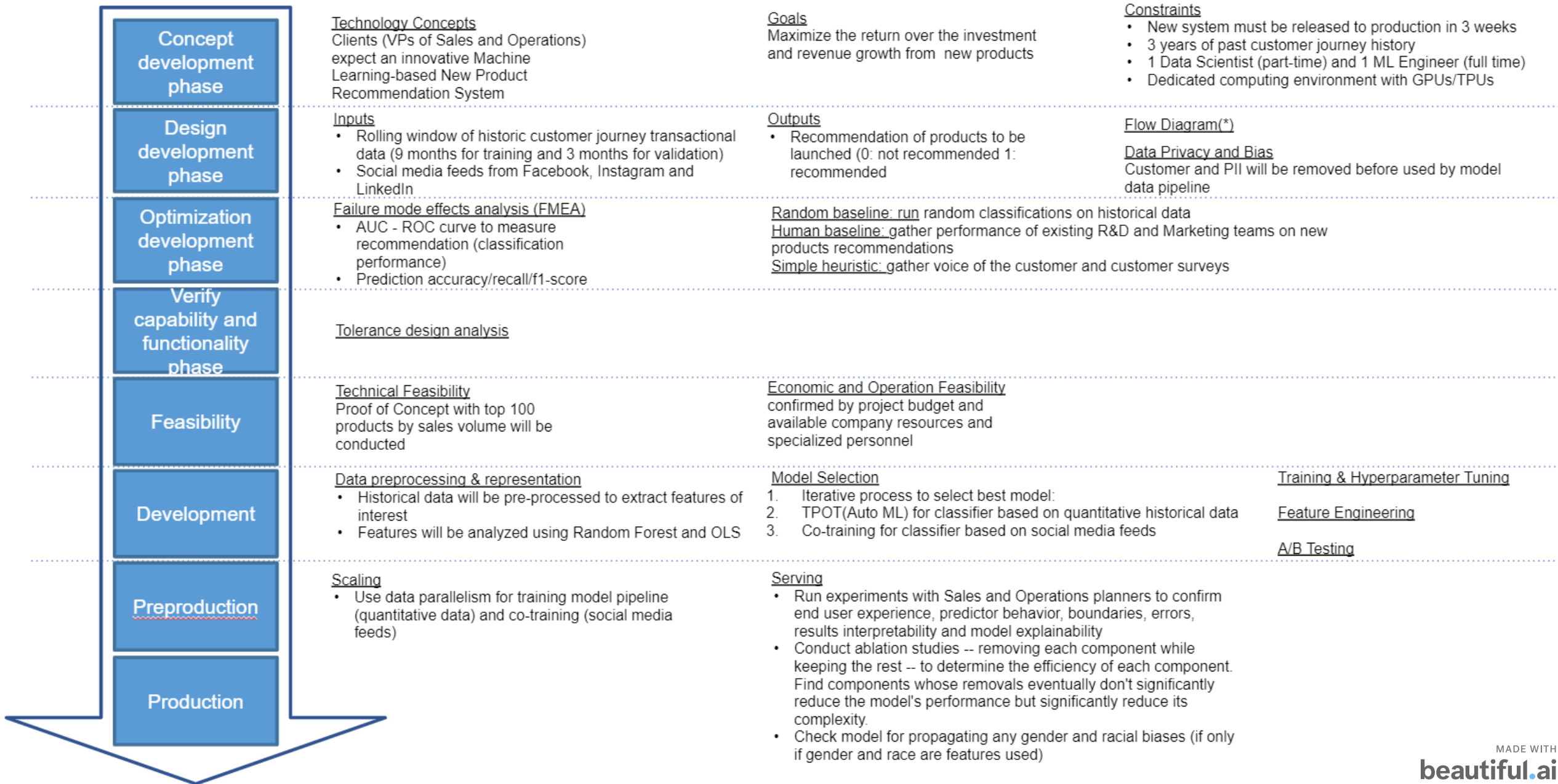
# DeepLearning.AI Insights – System High Level Design



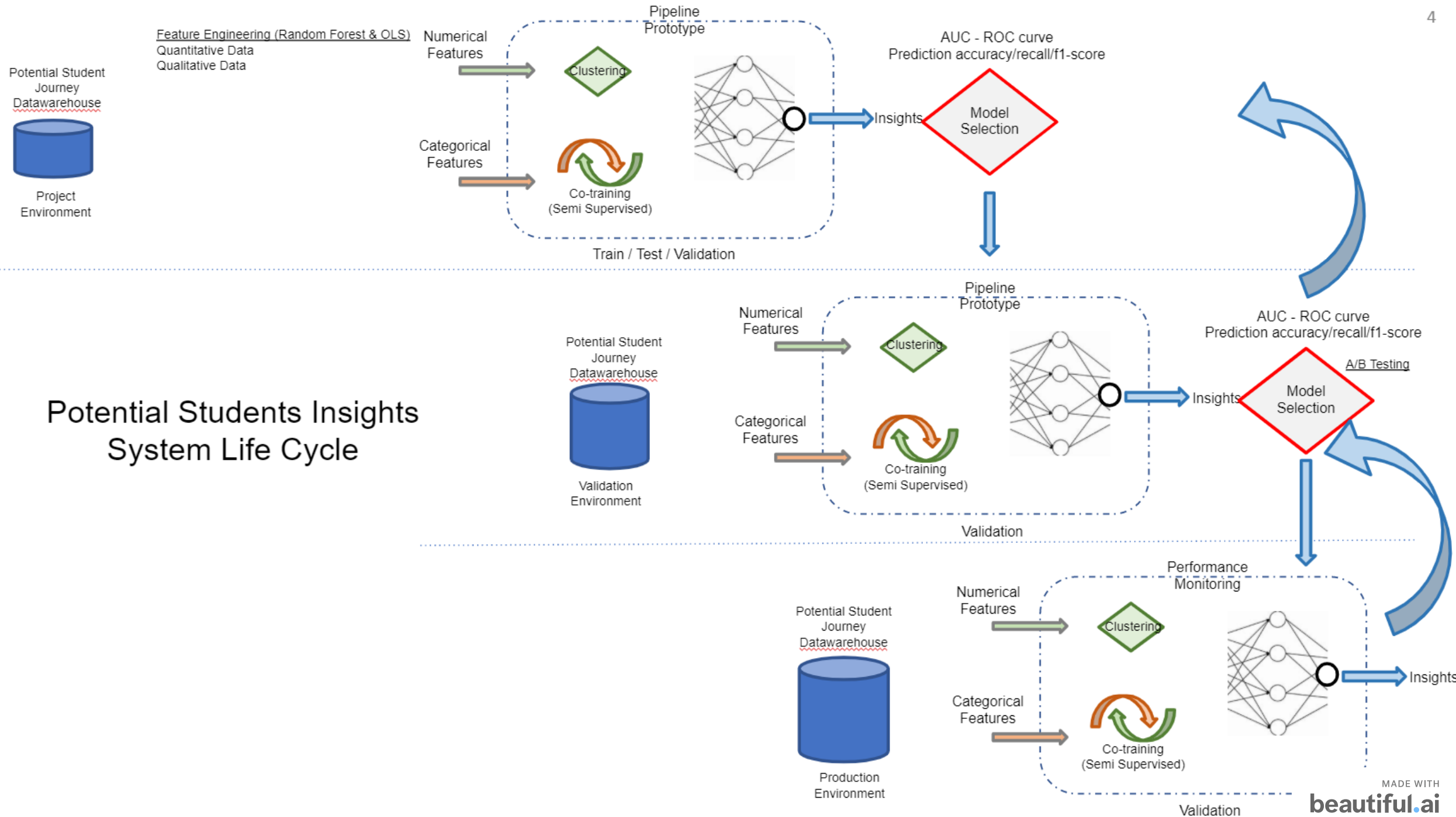
# Appendix

# Insights - System Life Cycle End-2-End Product Design

Design for Six Sigma: Roadmap for Successful Corporate Goals, Salman Taghizadegan, in Essentials of Lean Six Sigma, 2006









Q&A