

Technical Design

Hunter

Proposal

- Problem Statement
- Technical Solution
- Architecture Design
- Tasks
- Road Map
- Definition of Done
- Future Work: use BigQuery as database

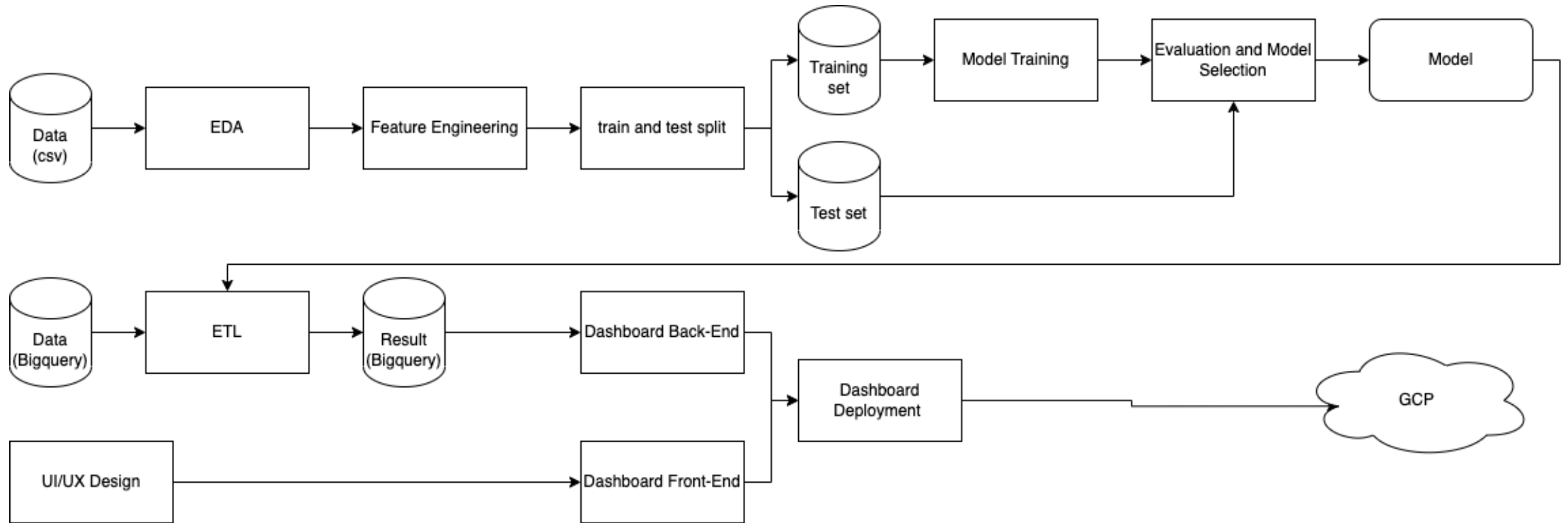
Problem Statement

- Describe the stakeholder, i.e. Definer
- Describe the problem: Definer has anomalies in their data, which can cause financial fraud.
- The porpuse: Design a Dashboard to detect and visualize anomalies, to help stakeholder to make decisions

Technical Solution

- Collect data: Definer provide two csv files by 09/17/2023.
- Build anomaly detection model: EDA, feature engineering, build model:
 - random forest with upsampling/downsampling
 - one class SVM
 - Deliver isolation forest model by 10/10
- Build dashboard using Plotly
 - Send email when detecting an anomaly
 - Show threshold in the plot
- Deploy dashboard in GCP

Architecture Design



Tasks

- EDA
- Feature engineering
- Model Training
- Model Evaluation and Selection
- Data Extraction
- Data Transformation
- Data Loading
- UI/UX Design
- Back-End Development
- Front-End Development
- Dashboard Deployment

Road Map

