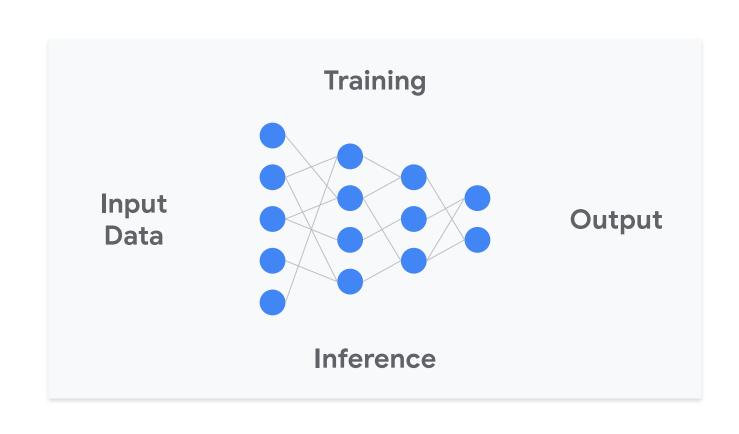
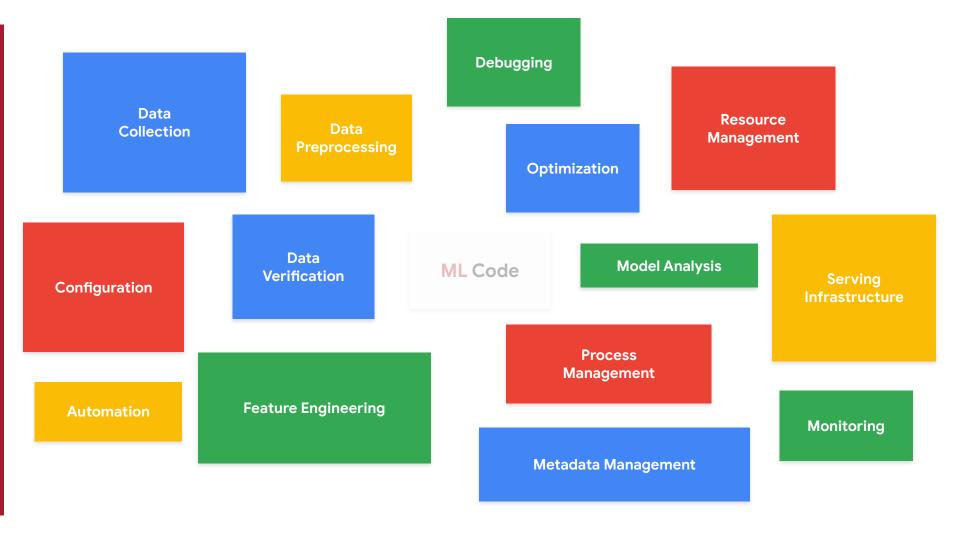
ML Lifecycle





ML Code



Data Engineering

- Defining data requirements
- Collecting data
- Labelling the data
- Inspect and clean the data
- Prepare data for training
- Augment the data
- Add more data

Data Engineering

Al Infrastructure

Data Engineering

- Defining data **requirements**
- Collecting data
- Labelling the data
- Inspect and clean the data
- Prepare data for **training**
- Augment the data
- Add more data

Data Engineering

Al Infrastructure

Model Engineering

- Training ML models
- Improving training speed
- Setting target metrics
- Evaluating against metrics
- Optimizing model training
- Keeping up with SOTA

Data Engineering

Model Engineering

Al Infrastructure

Model Deployment

- Model conversion
- Performance optimization
- **Energy-aware** optimizations
- Security and privacy
- Inference serving APIs
- On-device fine-tuning

I Infrastructure

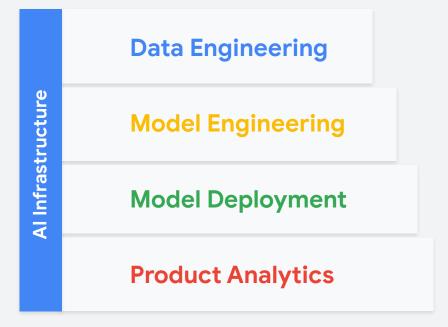
Data Engineering

Model Engineering

Model Deployment

Product Analysis

- Dashboards
- Field data evaluation
- Value-added for business
- Opportunities for advancement and improvements



Focus in TinyML

Data Engineering Al Infrastructure **Model Engineering Model Deployment Product Analytics**

Focus in TinyML

Data Engineering Al Infrastructure **Model Engineering Model Deployment**

Life cycle of ML

