AI Project Starter Kit

Templates for Defining Use Cases, Model Goals & Data Requirements

Bytecode Technologies

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A strong AI project starts with a clearly defined use case.

Template 1: AI Use Case Definition Worksheet

Use this worksheet to scope your use case.

1. Problem Statement (1–2 sentences)

- What problem are you trying to solve?
- Who is experiencing it?
- Why does it matter?

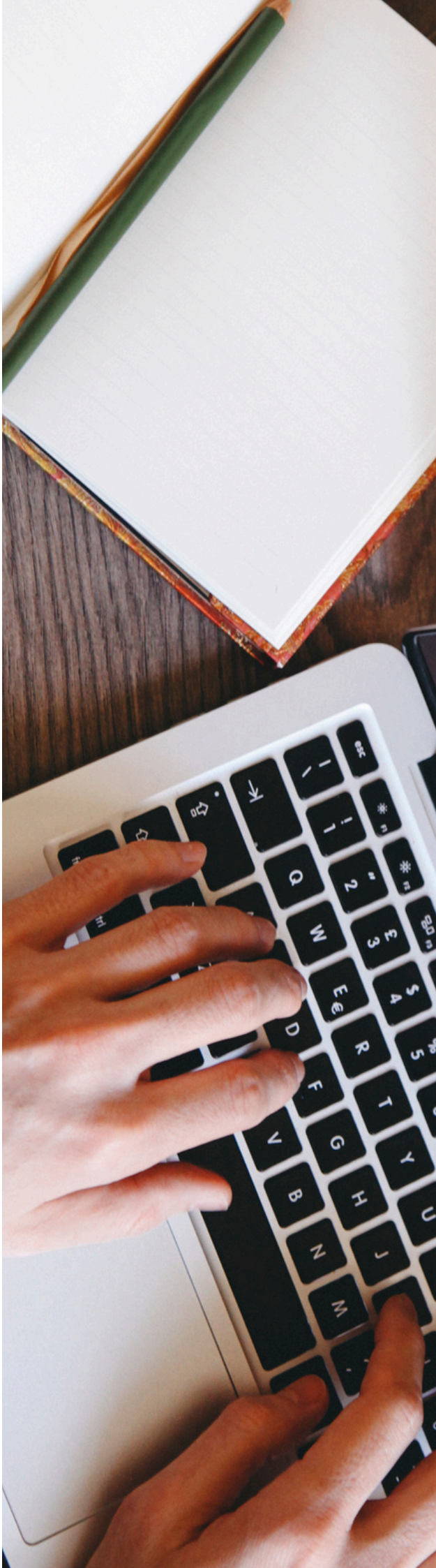
Example:
"Customer support response times exceed 4 hours, reducing satisfaction scores and increasing churn."

2. Desired Outcome

- What should improve?
- What does success look like?

Examples:

- Reduce response time by 60%
- Automate 40% of repetitive support tasks
- Increase NPS from 35 → 45



3. Why AI? Check all that apply:

- Large volume of repetitive decisions
- Requires pattern recognition
- Data-driven predictions
- Natural language understanding
- Automation at scale
- Integration with existing workflows

4. Expected Business Impact

- Cost reduction
- Revenue generation
- Efficiency & automation
- Customer experience improvement
- Risk reduction

Add quantifiable estimates if possible.

5. Stakeholders

Role	Responsibility
Product Owner	Requirements & decisions
Data Team	Data availability & prep
Engineering	Integration & deployment
Business Lead	ROI measurement

Template 2: AI Model Goals & Success Metrics

This template helps you set clear, measurable goals for the AI model.

1. Model Objective

What will the model do?

- Classify?
- Predict?
- Recommend?
- Generate?
- Extract information?

Example:
"Automatically classify support emails into categories with 90% accuracy."

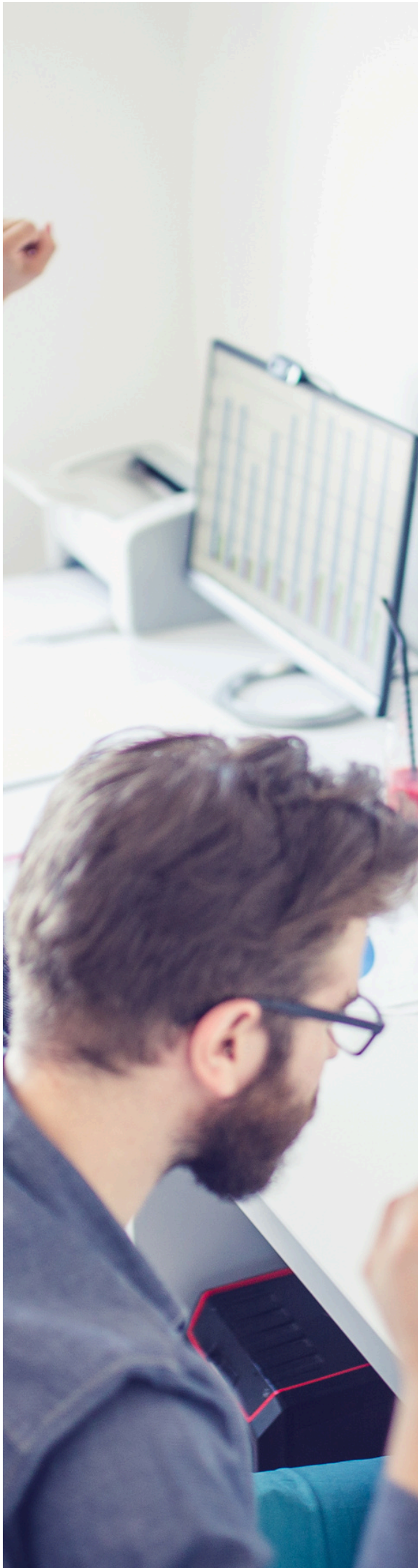
2. Key Performance Metrics

Select the metrics that apply:

- Accuracy
- Precision / Recall
- F1 Score
- MAE / RMSE (for regression)
- Latency (response time)
- Throughput (requests/second)
- Coverage (how much of the dataset can be processed automatically)

Target Values:
Define realistic thresholds for MVP, v1, and v2.

Metric	Accuracy
MVP Target	75%
V1 Target	85%
V2 Target	90%



3. Model Constraints

- Real-time vs batch?
- Maximum latency allowed?
- Cost limits?
- Data privacy requirements?

4. Model Risks & Assumptions

- Assumes clean training data
- Assumes integration available via API
- Risks of bias or misclassification
- External dependencies (APIs, data partners, internal systems)

Template 3: Data Requirements Blueprint

AI performance is directly tied to the quality and quantity of your data. This blueprint clarifies what you need.

1. Data Sources

Check all that apply:

- CRM
- ERP
- Website analytics
- Chat logs
- Transaction data
- IoT devices
- Third-party datasets
- Custom labeled datasets

For each source, specify:

Source | Owner | Format | Frequency | Access Method

2. Data Volume

How much data do you currently have?

- Dataset
- Records
- Time Range
- Notes

3. Data Quality Checklist

- Missing values?
- Inconsistent labels?
- Duplicates?
- Noisy or irrelevant fields?
- Requires preprocessing or feature engineering?

4. Data Privacy Requirements

- PII present?
- Encryption required?
- Anonymization needed
- Compliance: GDPR, HIPAA, SOC2, etc.

5. Data Labeling Needs

If supervised learning is required:

- What needs to be labeled?
- How many samples?
- What accuracy is needed?
- Who will label it? (internal team, ByteCode, external vendor)

Putting It All Together + How ByteCode Can Help

These templates give you everything you need to structure a successful AI project:

- A clear, validated AI use case
- Well-defined goals and success metrics
- Data requirements and readiness
- Architecture clarity
- A realistic, accountable roadmap

But templates alone don't build AI — execution does.

How ByteCode Technologies Helps

As a full-stack AI development partner, we help software companies:

- Validate and prioritize AI use cases
- Build custom AI models and intelligent automation systems
- Integrate AI with existing products and workflows
- Clean, label, and manage training data
- Build secure, scalable cloud-based AI architecture
- Deploy and maintain production-grade AI systems
- Accelerate delivery with modular frameworks and reusable components

Whether you're launching your first AI feature or scaling across the enterprise, the AI Project Starter Kit gives you the clarity — and ByteCode gives you the execution.

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THANK YOU

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