



ticket classification and automated routing systems.

Project Objective

times.

Key Ticket Categories					
	Bug Report Reporting software defects or errors for immediate action		Feature Request Gathering user suggestions for new functionalities and enhancements		Technical Issue Addressing problems requiring specialized technical assistance and expertise

Billing Inquiry

Handling questions and discrepancies related to invoices, payments, and subscriptions.	Resolving issues regarding user accounts, profiles, and access controls.	
<h1>Dataset Structure</h1>		
The dataset comprises historical customer support tickets, structured as follows:		
Field	Description	Type
Ticket_ID	Unique identifier for each ticket	Integer
Subject	Short summary of the issue	String (Text)
Description	Detailed explanation of the problem	String (Long Text)
Category	Pre-assigned issue type (target variable)	Categorical String
Priority	Urgency level of the ticket	Categorical String
Timestamp	Date and time of ticket creation	Datetime

Technical Requirements

- **Python 3.8+**
- **Key Libraries:** scikit-learn, pandas, numpy, NLTK/SpaCy, TensorFlow/PyTorch
- **Version Control:** Git (mandatory for collaboration)



Trained ML Model

A fully trained and optimized classification model, ready for production.



API Endpoint

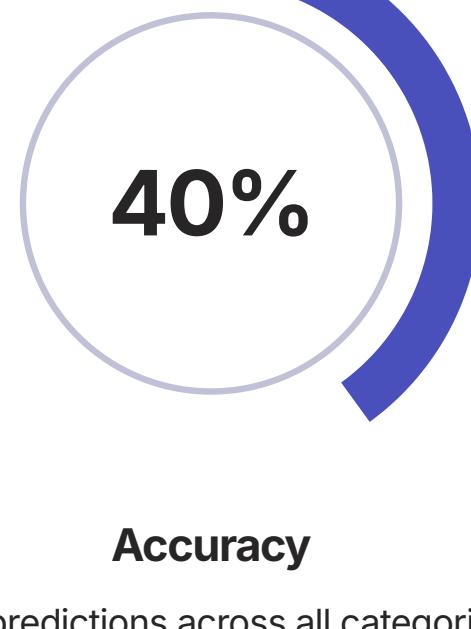
A robust RESTful API for real-time ticket classification and

- # Evaluation Framework

A robust RESTful API for real-time ticket integration.

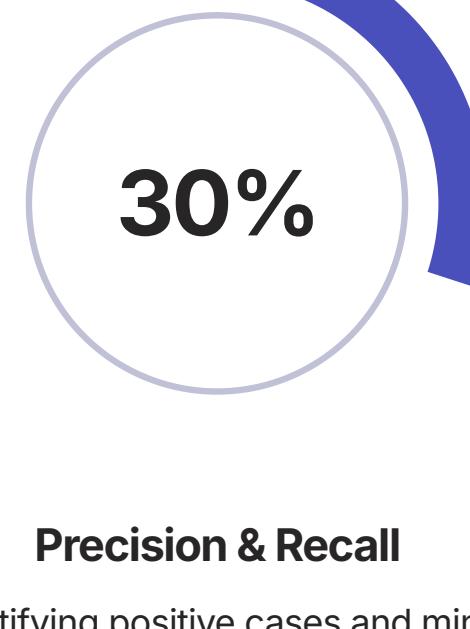
Technical Documentation

Model performance will be rigorously assessed using the following metrics and their respective weightages, ensuring a balanced evaluation:



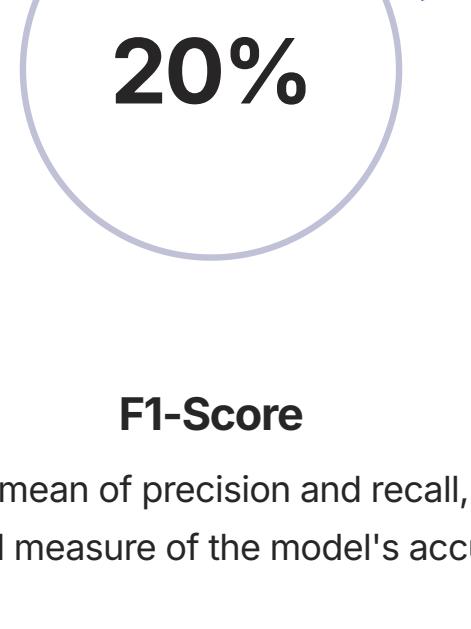
Model effects

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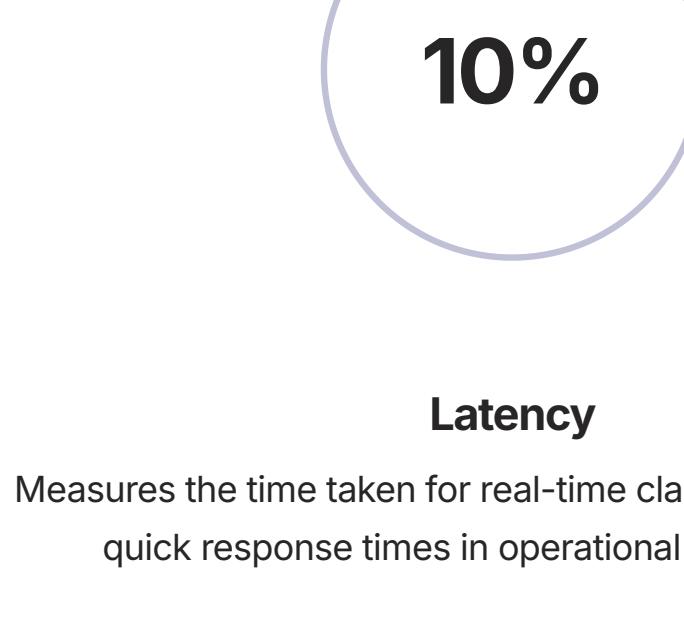
atives for each specific

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Guidelines

Please send your complete submission to support@leadmasters.ai with the subject line "AI/ML Assessment – Support Ticket Auto-Triage – [Your Full Name]". Submissions must be received within **48 hours** of assignment.



[.ai](#) with the subject line "AI/ML Assessment – Support Ticket" within **48 hours** of assignment.

Please send your complete submission to [S](#) Auto-Triage – [Your Full Name]". Submission

- **Comprehensive README:** A detailed README.md file outlining setup, execution, and model usage is required.
- **Model & Data Access:** The final model checkpoint and any necessary data files must be easily accessible.