CODE
BASICS

5 Industry Case Studies

JARGONS

Text Classification: Support Ticket Prioritization

1 **Message Pipe:** Communication mechanism that transfers messages among different processes within a software system.

2 **Data Annotation:** Alternative termed used to indicate labelling of data based on its category.

3 **Naïve Bayes:** Popular ML algorithm widely used in text classification / spam detection.

4 **Class Imbalance:** A term used to define a condition in which data points of a category is too less to make a decent study about it.

5 **Split:** Processing of dividing the data into two parts such as train data set (typically > 70%) and test data set. The train dataset is involved in model training and the test dataset is used solely for testing purpose.

6 **Flask, FASTAPI:** Frameworks used to deploy model in the cloud.

Image Classification: Plant Health Monitoring System

1 **Data Augmentation:** One of the techniques to counter class imbalance.

2 **Quantization:** Technique used to reduce the model size.

3 **IOT Devices:** Internet of things devices which are interconnected by internet.

4 **Edge AI:** System that implements the model directly in the device that collects the data.

RAG-Based Gen AI: ChatGPT for Private Organizational Data

1 **Web scrapper:** A tool that can extract required data from the website.

2 **Tokens:** Unit of measurement used by language models like ChatGPT to measure the amount of text that it needs to process to provide an answer.

3 **Streamlit:** It is an open-source software that allows one to share the prototypes easily with a functional user interface.

4 **Cron Job:** A Unix based task scheduler which schedules and triggers the processes.

Chatbot: Food Delivery Chatbot

1 **Intent:** In the context of chatbot building, it refers to the purpose or goal behind user's message.

2 **Webhook:** A method for one web application to provide real-time information to another application by using a specific URL.

Recommendation System: Book Recommendations

1 **Content Based Filtering:** It is a recommendation technique that suggests items to its users based on their preferences and similarities between items' features.

2 **Collaborative Filtering:** It is a recommendation technique that suggests items to users based on the preferences and behavior of similar users.

3 **A/B Testing:** A statistical method used to compare two variants of an output to understand which one performs better.