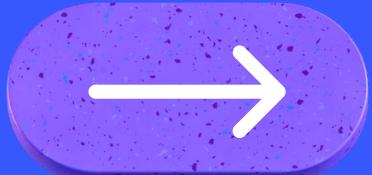




Cipher Recruitment Vision



Our In-house **AI-Enabled** Recruitment App

BY TEAM CIPHERS

Agenda

- Problem Statement
 - Solution(UI)
 - Code Flow
 - Key Features
-
- Theme-based Idea- AgriTech
 - Problem statement
 - Community based solution
 - Key Features

PROBLEM STATEMENT -1

Requirements

We need to parse, the basic details of the employee such as Name, Address, Phone Number, Years of Experience.

Implementation of NLP

Since a resume is in Text, we need to implement NLP to pre-process the text. Also using this technique we need to get relevant resumes to top the list

Parsing of PDF to database

When the user uploads the PDF, we need to extract the skills and save it in database.

Hell Yes! We do have the solution for the Problem statement.

FEW SNAP SHOTS OF OUR UI

A UI makes the user engage in browsing the feed page, and we got covered the feature, with super light weight and easy to use UI.

Search... 🔍

Home About

Cipher recruitment vision

We help with 3A (Assess, Analyze, Adapt) to bring your New Employee. You hire us and we take care of everything else

Hire Now → →

Apply Now → →

What makes us special

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× Cipher

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Get Our Top Candidates

Find out about skills and experience

Select a Category Years of experience

Get applicants

Top Applicants

Job title Phone Email YOE

CODE WORKFLOW- AI ENABLE RECRUIT APP

Frontend

The frontend is developed using: React, TypeScript, TailwindCSS, ViteJs, and SaaS

Implementation of TFIDF, cosine similarities and Yake

In the code flow, we took the Resume dataset to add a new user that applied. Using NLP text processing we clean the data and perform two ranked layers to rank the relevant category.

Backend

The backend is built using Flask and Python.

Lets look at some key features next...

How do TFIDF and Cosine similarity work?

$$w_{i,j} = tf_{i,j} \times \log \left(\frac{N}{df_i} \right)$$

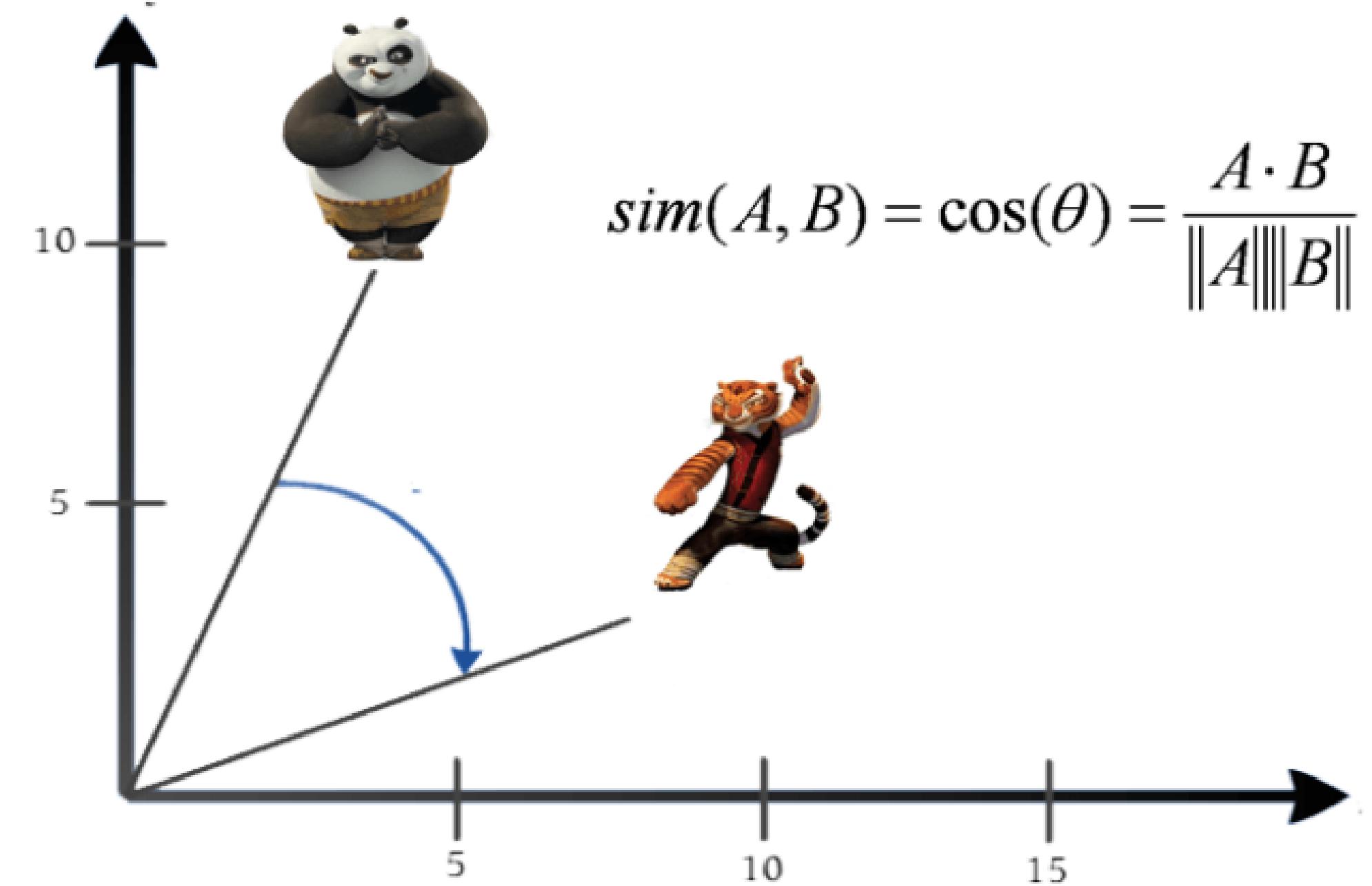
$tf_{i,j}$ = number of occurrences of i in j

df_i = number of documents containing i

N = total number of documents

Cosine Similarity

$$sim(A, B) = \cos(\theta) = \frac{A \cdot B}{\|A\| \|B\|}$$



How do YAKE works?



Key Features



New UI Design
Systems



Super Fast and
Light Weight



Resume pre-processing
using NLP Techniques



In-built Resume PDF
parser in the server
side



Two layered ranked
Categorical-based
recommendations.

THEME- AGRITECH

Problem Statement

A platform or community for farmers in particular to interact with other farmers throughout the state and country.

Native Language Community for Farmers

Not all farmers can use Social Media, so we did something that can satisfy their native language.

Rice and Crop disease AI solution provider

In house

Farmer Community

REACH



NETWORK



STAY UPDATED



FEW SNAP SHOTS OF OUR WORK

The image displays three screenshots of web applications, likely demonstrating a multi-page application (SPA) structure:

- Left Screenshot (Weather Dashboard):** A dark-themed dashboard showing the weather in Miami. It includes a header with "MIAMI", current temperature (36° / 28°), UV index (8 UV), and precipitation (5% Precip). Below this is a navigation bar with links: Dashboard, Profile, Users, Diseases, Crop Tracker, Message, Settings, and Logout. The main content area shows a city skyline at night, a weather summary, and two blog posts.
- Middle Screenshot (Blog Posts):** A list of blog posts. Each post card includes a thumbnail image, the title "In usu laoreet repudiare legendos", a date (January 21, 2021 or January 24, 2021), and a short excerpt. The posts are identical in content, featuring placeholder text from the LOREM IPSUM generator.
- Right Screenshot (FAQ Page):** A dark-themed page titled "Frequently Asked Questions". It features a "HOW IT WORKS" section and a large "FAQ" section. The FAQ section contains several questions with placeholder text. At the bottom, there is a feedback form with a title "Your opinion matters!", a rating scale from 1 to 5 stars, a message input field, and a "Leave feedback" button.

On the far right of the image, there is a vertical column of code snippets, possibly representing the source code for the application's components:

```
as.models.Sequential([
    layers.Conv2D(32,3,padding="sa
    layers.BatchNormalization(),
    layers.MaxPool2D(),
    layers.Conv2D(64,3,padding="sa
    layers.BatchNormalization(),
    layers.MaxPool2D(),
    layers.Conv2D(128,3,padding="s
    layers.BatchNormalization(),
    layers.MaxPool2D(),
    layers.Flatten(),
    layers.Dense(256,activation="r
    layers.Dropout(0.5),
    layers.Dense(CLASS_NUM,activat
```

AI

CROP

SOLUTION
PROVIDER

Predicted: Brown Leaf (Target: 1)

About

Brown leaf spot rice is one of the most serious diseases that can affect a growing rice crop.

Cause

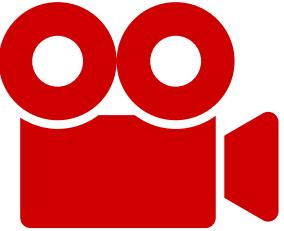
Brown spot is caused by the fungus *Cochliobolus miyabeanus*. Also called *Helminthosporium* leaf spot, it is one of the most prevalent rice diseases in Louisiana.

Solution

1. As the disease is seed-borne, Use disease-free seeds
2. Removal of alternate & collateral hosts.
3. The use of resistant varieties is the most economical means of control.
4. Growing Resistant varieties like ADT 44,PY 4,CORH 1,CO 44,CAUVERY,BHAVANI,TPS 4 and Dhanu.



Demo- AI Enabled Recruitment App



The screenshot shows a web browser window with the URL `127.0.0.1:5173`. The page has a dark background featuring a large, semi-transparent grayscale portrait of a person's face. At the top, there is a navigation bar with a search bar containing 'Search...', a magnifying glass icon, and links for Home, About, Projects, and Contact. On the right side of the nav bar are 'Log in' and 'Sign up' buttons. Below the navigation bar, the word 'Vision' is displayed in large white letters. A text block below it reads: 'We help with 3A (Assess, Analyze, Adapt) to bring your New Employee. You hire us and we take care of everything else'. Two purple rounded rectangular buttons labeled 'Hire Now →' and 'Apply Now →' are positioned at the bottom of this section. Further down the page, the heading 'What makes us special' is shown in large white letters, followed by a block of placeholder text: 'Lorem ipsum dolor sit amet consectetur adipisicing elit. Repellat dolores iure fugit totam iste obcaecati. Consequatur ipsa quod ipsum sequi culpa delectus, cumque id tenetur quibusdam, quos fuga minima.' At the very bottom of the page, there are three small, faint text items: '2 Interview Scheduling', 'NLP and Codice similarity', and 'Real-time bidding'.

For questions, reach out to:



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THANK YOU