Model Development Phase Template

Date	Nov 2024
Team ID	Team-739663
Project Title	AI-Enabled Candidate Resume Screening using NLP
Maximum Marks	5 Marks

Model Selection Report:

If the trained models meet the desired performance metrics (e.g., accuracy, precision, recall, F1-score), they are saved in the model directory of the project environment. These models can then be loaded for automated resume screening and evaluation tasks.

Model	Description

This Model can be deployed to a production environment or integrated with an Applicant Tracking System (ATS) or HR portal. It processes resumes, extracts key information, matches candidate profiles with job descriptions, and returns similarity scores or fit rankings to assist recruiters in making data-driven hiring decisions.	
	
	``python
	def extract_text_from_pdf(pdf_path):
	  doc = fitz.open(pdf_path)
	  text = " "
	  for page in doc:
	    text += page.get_text()
	  return text
	``
	
	``python
	def extract_skills_from_text(text):
	  text = text.lower()
	  doc = nlp(text)
	  tokens = [token.text for token in doc if not token.is_stop and not token.is_punct]
	  extracted =set()
	  for skill in skills_db:
	    if skill in tokens or skill in text:
	      extracted.add(skill)
	  return list(extracted)
	``