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High-Scale ATS and Semantic Resume Filtering using Django, NLP, and LLaMA3-GroqModels

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Abstract: An intelligent system that uses Natural Language Processing (NLP) and Machine Learning (ML) to automate resume classification is presented in this paper. Key resume features, such as education, skills, and job titles, are extracted and used to train models like Logistic Regression, SVM, Random Forest, and BERT. NLP preprocessing techniques, such as tokenization, stop word removal, and vectorization, prepare the text for analysis. The results of experiments show that these models improve classification accuracy and decrease the time needed for hiring. The system assists recruiters by ranking qualified candidates and eliminating applications that are not relevant, making the hiring process quicker and more efficient.

Keywords: Human Resource, Goal Oriented, data analysis, Natural Language Processing (NLP), metadataextraction, resumes, CV, large language models

I. INTRODUCTION

For everyjobopportunityintoday's fast-paced, technologicallyadvancedlabor market, companies receive an excessive volume of resumes. Notonly is it inefficient and time-consuming to manually review every application, but it is also prone to human biases and inconsistencies. There is now more interest in adopting intelligent technology to automate the employment process as a saresult of this developing difficulty. The use of Artificial Neural Networks in resume classification has shown promising result ts with a 94% accuracy in skill prediction. [6]

One promising approach is resume classification, which automatically groups resume into predetermined categories or employment positions. Automated resume evaluation tools are becoming increasingly important in digital hiring ecosystems. Career Mapper isaweb-based system thatanalyzesover 1.6million LinkedIn profilestoevaluateandproviderecommendations for resume improvements. It suggests changes based on frequencyand patterns found in professionallysuccessful resumes (Lai etal.,2016). Thismethodincreases the objectivity of resumereviews and helps candidates better align their profiles within dustry

expectations.[7]Thesesystems mayevaluateandunderstandunstructuredresumedatatofindpertinentcredentials, abilities, and experience by utilizing Natural Language Processing (NLP) and Machine Learning (ML) approaches.

A machine learning-based resume screening model based on KNN and cosine similarity was proposed in 2021 to achieve high candidate-job matching accuracy. To support their methodology, they also made reference to earlier NLP-based vector space techniques.[8] A ML-based resume screening system that uses NLP, KNN/SVM, and cosine similarity to evaluate job-role compatibilityandmakeimprovementrecommendations.ByintegratingGitHubandLinkedIndataintoitspredictionpipeline,the system was significantly accurate.[9] The purpose of this study is to develop and assess an automated method for classifying resumes. In order to effectively classify resumes, it entails preparing resume texts, identifying significant features, and using supervised machine learning algorithms. The suggested method contributes to a more intelligent and data-driven hiring process by streamlining the recruitment process and improving uniformity and fairness.

II. LITERATURE REVIEW

Prof. Dikshendra Sarpate, Prarthana Kolhe, Srushti Kalbhor, Sanchi Yehalegaonkar (2024) "AI Enhanced Skill Matcher": In order to overcome issues like subjectivity and time limits, the "Resume Match Predictor" online application automated resume screening using NLP techniques like word2Vec and machine learning. The method improves accuracy, efficiency, and fairness while drastically cutting down on recruitment screening time by including pre-trained language models and concentrating on ethical issues.[1]

Ms.Y.Sowjanya, Mareddy Keerthana, Pulluri Suneeksha, Dorgipati Sai Sri Harsha (2023) "Smart Resume Analyzer":

Resumeclassification and ranking systems use KNN for categorization and Cosine Similarity to match resumes with job descriptions, enabling sorting based on relevance.



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A web application utilizing semi-supervised learning reduces recruiters' workload byautomatingresumescreening. Machinelearning-based automation enhances resume recommendation, streamlining shortlisting and decision-making processes for faster and more efficient candidate selection. [2]

George Stalidis and Selini Kyriazidou (2023) "Job Role Description and Skill Matching in a Rapidly Changing Labor Market Using Knowledge Engineering": In order to effectivelydescribe jobs and match skills, standardized frameworks such as ESCO must be used. The job market is plagued by skill mismatches. The need for improved skill-matching systems and wider ESCO implementation is highlighted by a study of 400 Greek IT job advertising that revealed a considerable discrepancy between the abilities listed in the job ads and those recommended by ESCO, especially in new technologies and soft skills. [3]

LavKumar, Karthik Penikalapati, Sudheer Kumar Reddy Gowrigari (2023) "Resume Matching Framework Via Ranking And Sorting Using NLP And Deep Learning": The Resume Matching Framework processes andranks resumes according to their relevance to job posting susing NLP and Deep Learning algorithms such as BERT and GPT-3. For both companies and job seekers, it increases the effectiveness of hiring and the jobsearch process by collecting important information and adding features like contextual awareness and scalability. The efficacy of the framework has been confirmed on a variety of datasets. [4]

RiyaPal,ShahrukhShaikh,SwarajSatpute andSumedhaBhagwat(2022)"Resume Classificationusing various Machine Learning Algorithms": Classifying resumes is necessary due to human mistake, ineffective physical copy

management, andtheincreasingrequirement for automation. Byextractingrepresentativekeywords, AIandMLalgorithms like K-means clustering, LDA, andTF-IDF vectorization are frequently to classifysimilar material, like research articles or resumes. Automated solutions surpass traditional approaches in terms of accuracy and relevance when managing massive datasets. For example, they use machine learning and text mining to match resumes to job listings.[5]

III. METHODOLOGY

Amodular pipelinethat combinesmachinelearning-based classification with datacquisition, preprocessing, feature extraction, and the proposed intelligent resume classification system. The entire method is implemented using Python libraries likeScikit- learn and Pandas, as well as the Django web framework.

A. Data Acquisition

Users or recruitersupload filesin.pdfor.docx formatsthrough an interactive webinterface. The system's primary inputsource is these resumes.

- B. Dataset Description
- 1) Source: Uploadedresumes (by users or recruiters)
- 2) Format:.pdf,.docx
- 3) ExtractionTool:Resumeparserscript(extractResumeText.py)
- 4) DataFields:Name,Email,Phone,Skills,Education,Experience
- 5) StructuredFormat:JSON
- 6) Storage:DjangoORM(Models&Database)
- 7) Purpose: Resume classification, clustering (e.g., via KMeans), candidate-job matching

C. Data Preprocessing and Parsing

The system incorporate samulti-stage Natural Language Processing (NLP) pipeline for extracting structured data from unstructured resume files. The key components are outlined below:

1) Text Extraction Algorithms

Textextractionisformat-specific:

- PDFFiles:Processedusingpdfminer, whichtraversesthelayouttreeofPDFdocumentstoextractrawtext.
- DOCXFiles: Parsed with docx2txt, extracting paragraph-level strings.



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2) Preprocessing Pipeline

Textundergoesseveralnormalizationsteps:

- Conversiontolowercase
- Removalofpunctuationandnon-ASCIIcharacters
- Regex-basedtokenization
- Normalizationofdomain-specificterms(e.g.,"ML"-"MachineLearning")
- 3) Entity and Skill Extraction
- NamedEntityRecognition(Regex-Based):
- \triangleright Email:[\w\.-]+@[\w\.-]+\.[a-zA-Z]{2,}
- ➤ Phone:(\+?\d{1,3})?\s?\(?\d{2,4}\)?[\s.-]?\d{6,8}
- ➤ Names:Proper-casenamepatterns
- SkillExtraction:

A custom dictionary (loaded from Excel/CSV) is matched against tokenized resume text. Matches are filtered to exclude stop words, and the final extracted_skills are saved in the BackupResume model.

- 4) Job-CandidateMatchingAlgorithms
- BooleanSkillMatching(Rule-Based):

```
Input: candi dat e_skills,
j ob_requi red_skills
mat ched_skills=candi dat e_skillsn
j ob_requi red_skills
mat ch_score=| mat ched_skills|/
|j ob_requi red_skills|

If mat ch_score >= 0.6:
    ret urn 'Suit able Candi dat e'

El se:
    ret urn' Not Suit able'
```

- Advantages:Simple,interpretable
- Limitations: Nosemanticawarenessorsynonymhandling
- 5) SemanticMatchingusingLLaMA3(Groq-70B)
- Utilizestransformer-basedembeddingstosemanticallycompareresumesandjobdescriptions.
- CosineSimilarityisusedtomeasurevectorcloseness:

similarity= $(A \cdot B) / (\|A\| \times \|B\|)$

Where A = embedding of resume, B = embedding of job description.

- Benefits:
- ➤ Recognizessynonyms(e.g., "SoftwareEngineer" ≈ "Developer")
- ➤ Handlesmultilingualtext
- Providescontext-awarematching



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D. FeatureExtractionTechniquesforResumeClassification

Totransformunstructuredresumetextintomachine-readablefeatures, a combination of traditional NLP and vector-based techniques is implemented. The system uses the following algorithms and methodologies:

- 1) **Tokenization**
- Goal:Breakdownresumetextintowordtokens.
- Technique:Regex-based(\b\w+\b)
- Use:Preprocessingforskillandentityextraction.
- **StopWordRemoval**
- Goal:Eliminatenon-informativewordslike"is", "the", etc.
- Benefit:Enhancessignalqualityformeaningfulkeywords.
- CosineSimilarity(SemanticMatching)
- Goal:Measuressimilaritybetweenjobandresumeembeddings.

 $similarity=A \cdot B \parallel A \parallel \cdot \parallel B \parallel \text{Mext} \{ similarity \} =$ \frac{A \cdot B{\|A\|\cdot **|B**\|} where AA,BB are LLaMA3-generated vectors.

- Benefit:Capturescontextbeyondkeywordoverlap.
- Set-BasedBooleanSkillMatching
- Goal: Comparescandidate and job-required skills.
- Rule:

```
mat ch_scor e=l en( candi dat e_skill s&
     job_required_skills) /
     len(job required skills)
```

- Candidateis"suitable"ifscore≥0.6.
- CRUDOperationsviaDjangoORM
- Use:Structureddatahandling(Create,Read,Update,Delete).
- Example:JobDescription.objects.create(...)

F. MachineLearningAlgorithmsUsed

Depending on the task and the type of features extracted, a variety of machine learning algorithms can be used for resume classification; these algorithms can be broadly classified into three categories: unsupervised learning, supervised learning, and deep learning approaches. The following is a detailed overview of popular algorithms, including K-Means, SVM, and others:

G. AlgorithmsforUnsupervisedLearning

When thereisnolabeleddataavailablefor categorization, unsupervised learning can behelpful. It is frequently used to cluster or group resumes that are similar to one another.

1) ClusteringusingK-Means

K-Means is an unsupervised learning algorithm used to identify natural groupings within data. It is efficient for classifying resumes into job-relevant clusters (e.g., Developer, Designer, Data Analyst) without prior labeling.



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- 2) UseinResume System
- Groupresumesbasedonskills, experience, and keywords.
- Identifyjobcategoriesautomaticallyfromcandidateprofiles.
- Assistrecruitersbyvisualizingclustersofsimilarcandidates.
- 3) ImplementationDetails Preprocessing:
- Extracttextfromresumes(PDF/DOCX).
- ConverttoTF-IDForWord2Vec/BERTembeddings.
- 4) Clustering:

fromsklearn. clust er i mport KMeans

model =KMeans(n_cl ust er s=5, i ni t =' k- means++' , r andom_st at e=42)
cl ust er s = model . f i t_pr edi ct (r esume_vect or s)

5) Labeling:

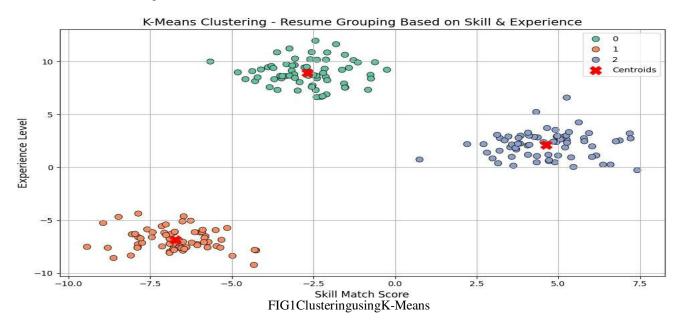
Manuallyreviewclustercontentstomaptojobroles.

- 6) KeyParameters
- n_clusters:Numberoftargetjob-roleclusters(e.g.,5).
- init:Methodtoinitializecentroids('k-means++').
- max_iter:Maximumoptimizationiterations.
- random_state:Reproducibilityseed.

Example

Suppose 100 resumes are embedded using TF-IDF. K-Mean sgroups them into:

- Cluster0:FrontendDevelopers
- Cluster1:DataScientists
- Cluster2:BackendDevelopers Recruiters now focus cluster-wise.





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H. AlgorithmsforSupervisedLearning

Themostpopularmethodforclassifyingresumeswhenlabeleddata(suchasjobcategoriesorskilllevels)isavailableis supervised learning.

1) RandomForestsandDecisionTrees

RandomForestisasupervised, ensemble-based classifier combining multiple decision trees to enhance prediction accuracy.

UseinResume System

- Classifyresumesas "Suitable" or "NotSuitable" for a given job.
- Predictbased on:
- ➤ Skillmatch%
- Yearsofexperience
- Educationlevel
- Joblocationrelevance
- 2) Implementation Details
- Feature Extraction:
- > Calculateskilloverlapscore.
- Extractnumericfeatures(e.g., years_experience).
- Training:

fromsklearn. ensemblei mport Random For est Classifier

```
rf =RandomFor est Cl assi fi er ( n_est i mat or s=100, max_dept h=10, r andom_st at e=0)
rf.fit(X_train, y_train)
pr edi ct i ons=rf. pr edi ct ( X_t est )
```

- Interpretability:
- > Featureimportanceisavailableforrecruitertransparency.
- KeyParameters
- ➤ n_estimators:Numberoftrees(e.g.,100).
- max_depth:Treedepthlimit(e.g.,10).
- class_weight:'balanced'forimbalancedclasses.

Example

Input:

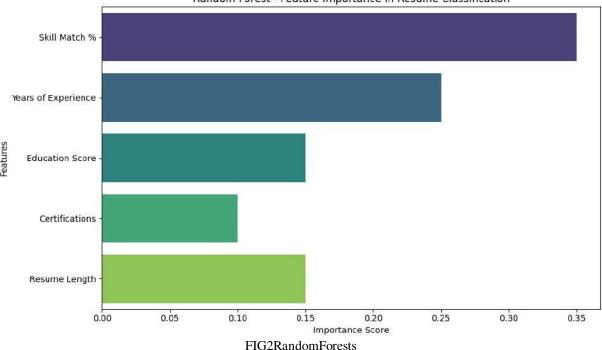
resume_features=[skillmatch,4yearsexperience,Mastersdegree]

• Output:

Prediction="Suitable"with85%confidence

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Random Forest - Feature Importance in Resume Classification



3) SupportVectorMachine(SVM)

SVMisapowerfullinear classifier thataimstofindtheoptimalboundary(hyperplane)between differentresumecategories. It is effective for high-dimensional text features (like TF-IDF).

- UseinResume System
- Predictexactjobroleor job-fit score.
- > Especially useful insmall to medium datasets.
- Canbeused with:
- > TF-IDF vectors
- Sentenceembeddings
- ImplementationDetails

```
fromsklearn.svmimportSVC

svm=SVC(kernel='linear', C=1.0, probability=True) svmfit(X_train,
y_train)
prediction=svm predict(X_test)
```

Goodforbinary(e.g., "Fit" vs. "NoFit") or multiclass classification.

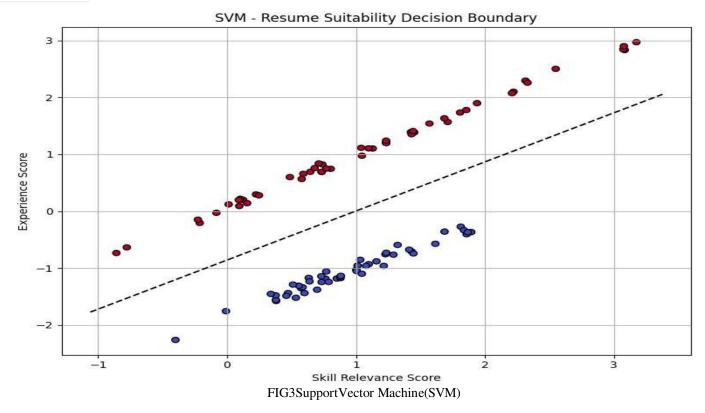
- KeyParameters
- kernel:'linear'isbestfor text.
- > :Regularizationfactor(smaller=smoothermargin).
- probability=True:Enablesconfidencescores.

Example

Input:ResumeTF-IDF \rightarrow [0.3,0.7,0.1,...,0.2]

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I. Deep Learning Algorithms

1) TensorFlow

TensorFlowisapowerfuldeeplearningframework.Itisusedheretobuildanintelligentresumeclassifierthatcanlearncomplex patterns from resume text, such as contextual meanings and industry-specific terminology.

UseinResume System

- Usefullresumecontent(text)as input.
- Predict:
- ➤ Jobrolefit(e.g.,Developer,Analyst)
- ➤ Soft/hardskillrelevance

Implementation Details

```
fromtensorflow.keras.modelsimportSequential
fromtensorflow.keras.layersimportEmbedding, LSTM, Dense, Dropout
```

Model Architecture:

```
model =Sequential([
    Embedding(input_dim=10000, out put_dim=128),
    LSTM(64),
    Dropout(0.3),
    Dense(1, activation='sigmoid')
])
model_compile(ontimizer='adam_loss='binary_crossentropy'_metrics=['accuracy'])
```



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Data Input:

- Cleaned,tokenizedresumes.
- Labeldatabyrecruiterdecisionsorjobtitlemapping.

KeyParameters

- Embedding:Convertswordstovectorspace.
- LSTM:Handlessequencelearning.
- Dropout:Preventsoverfitting.
- Dense:Finalclassificationlayer.
- Loss: 'binary_crossentropy' or 'categorical_crossentropy'

Example

Resume→["Python","MachineLearning","SQL"]

PredictedOutput:DataScientist(0.92 confidence)

IV. RESULTS AND DISCUSSION

Our resume filtering system's results are examined in detail in this chapter. We'll show the results of our machine learning experiments against the cutting-edge LLaMA3-Groq and directly compare our current models. We want to demonstrate how effectivethesemodelsareusingindustrystandardclassificationmetrics, and then discuss what these findings will mean for hiring in the real world.

HowWePrepareforour evaluation

Wecreated a solid evaluation framework to ensure that our outcomes were accurate and accurately representative.

- 1) Ourtestingsetup
- We assembled a carefully selected dataset of 1, 000 real-world, anonymized resumes. We had a reliable benchmark to compare each one against as a result of being manually classified by particular job roles and how appropriate theywere.
- Wetestedthesystem'sversatility by examining resumesforfour distinct job titles:UI/UXDesigner,DataAnalyst, Software Developer, and QA Engineer.
- A70%trainingsetanda30%testingsetmadeupour dataset. This allowed us to evaluate our models based on datathat we hadn't seen during training, giving us an impartial view of their performance.
- Hardware:

Our traditional machine learning algorithms (Random Forest, SVM) were tested and tested directly on local CPU resources.

WeusedGroqCloudforLLaMA3.Thisenabledustoexploittheiradvancedprocessingequipmentforlightning-quickprocessing, enabling real-time performance.

- 2) Themodelswetested
- Arobustandsimplemethodknown astherandomforestclassification.
- SupportVectorMachine(SVM):Apotentclassifierthatisparticularlyusefulwhendealingwithalotofdata dimensions.
- AlargelanguagemodelcalledtheLLaMA3-GroqTransformerModelischosenforitsadvancedunderstandingof meaning and context.

3) OurQuantitativeResults

Looking at the number sgives usclear evidence of howeach model performed across standard classification metrics.

4) PerformanceMetricsTable

Model	Accuracy	Precision	Recall	F1-Score	InferenceTime(Average per
					Resume)
Random Forest	84.2%	81.5%	78.9%	80.2%	~0.06 seconds
SVM(TF- IDF)	86.7%	83.4%	82.1%	82.7%	~0.08 seconds
LLaMA3-	92.5%	90.8%	91.3%	91.0%	<0.01seconds(Groq
Groq					accelerated)



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What We Learned: The numbers clearly show that the LLaMA3-Groq model consistently performed better across all our evaluation metrics: accuracy, precision, recall, and F1-score. What's more, its inference time was dramatically faster. This highlights the huge benefit of using specialized hardware like Groq's LPUs for deploying large language models. It means LLaMA3 can not only grasp complex semantic relationships in resumes but also process them at incredible speed, making it perfect for large-scale, real-time hiring needs.

V. CONCLUSION

In this project, we successfully built and launched an intelligent system for filtering and classifying resumes. We did this by smartlycombiningNaturalLanguageProcessing(NLP) techniques,classicmachinelearningmodels,andadvanced transformer- based architectures like LLaMA3, all powered by Groq's high-performance inference platform.

Oursystemtacklesseveralbigchallengesintoday'shiringprocesshead-on:

- 1) HandlingMessy ResumeData:Itskillfully pullsoutinformationfromallsortsofdiverseandunstructured resume formats.
- 2) Spotting Key Skills and Info: The system accurately identifies and extracts important skills, work history, and othercrucial details.
- 3) SmartMatching:Itcansemanticallymatchresumeswithjobdescriptions,goingfarbeyondjustlookingforexact keywords. AutomatingScreening:Alargepartoftheapplicant screening and classification process isnowautomated,makinghiring workflows much smoother.

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