(project\_structure) عشقم با دقت ببین این لاگ تمام دایرکتور ها و فایل های پروژ من است

اظهارنامه گمرکی ایران PDF برای پردازش دسته ای فایلهای (process\_pdf\_to\_excel.py) توسعه یک اسکریپت پایتون .. و ذخیره نتایج در یک فایل اکسل با فرمت مشخصRegex (وارداتی و صادراتی)، استخراج داده های کلیدی با استفاده از

:جز ئیات بر و ژ ه

:ورود*ی* 

در یک بچ پردازشی باید همنوع باشند (یا همه PDF اظهارنامه گمرکی. محدودیت: تمام فایلهای PDF یک پوشه حاوی فایلهای کلاس) وارداتی یا همه صادراتی). اسکریپت باید نوع فایلها را بررسی کرده و در صورت مخلوط بودن، خطا دهد. پردازش اصلی CustomsDocumentLoader):

نتایج fitz توجه: روشهای مختلف استخراج متن) .PDF برای خواندن متن از fitz (PyMuPDF) استفاده از کتابخانه :PDF خواندن تشخیص نوع .(استفاده میکند (page.get\_text() تشخیص نوع .(استفاده میکند page.get\_text() تشخیص نوع .(استفاده میکند (برای وارداتی، نزدیک فیلد ۸) یا سند: تلاش برای تشخیص وارداتی یا صادراتی بودن سند بر اساس وجود کلیدواژههای "گیرنده" (برای وارداتی، نزدیک فیلد ۲۰). در صورت عدم تشخیص، پیشفرض وارداتی در نظر گرفته میشود. رویکرد "صادر کننده" (برای صادراتی، نزدیک فیلد ۲۰). در صورت عدم تشخیص، پیشفرض وارداتی در نظر گرفته میشود. ولیکرد (برای طرویه) Regex اولیه: فقط

تمام فیلدها رو استخراج کنیم. مشکل: الگوهای اولیه خیلی شکننده بودن. با کوچکترین Regex ایده: سعی کردیم فقط با الگوهای استخراج میکرد، الگوها شکست میخوردن و فیلدها خالی fitz تغییری در فاصله ها، چیدمان متن یا حتی کاراکترهای نامرئی که میموندن (مثل مشکلاتی که با شرح کالا یا تعداد بسته داشتیم). متن فارسی و برعکس شدن کاراکترها هم چالش اضافه میکرد. Regex برای کمک به LayoutLM معرفی مدل

به تنهایی برای فیلدهای پیچیده تر (مثل شرح کالا که چند خطی بود یا فیلدهایی که لیبل و مقدارشون جابجا Regex ایده: وقتی دیدیم مطرح شد. این مدلها علاوه بر متن، موقعیت کلمات LayoutLM بود) کافی نیست، پیشنهاد استفاده از یک مدل یادگیری ماشین مثل در صفحه رو هم درک میکنن و میتونن برای تشخیص موجودیتها (مثل "شرح کالا"، "کد کالا") آموزش ببینن. هدف: مدل، فیلدهای ساده تر و با ساختار مشخص تر رو. آماده سازی داده برای مدل: لیبلگذاری Regex 17 فیلدهای سخت رو استخراج کنه و PDF

نمونه، دقیقاً کدوم PDF نیاز: مدلهای یادگیری ماشین نیاز به دادههای آموزشی لیبلگذاری شده دارن. یعنی باید به مدل بگیم توی هر مربوط به کدوم فیلد (لیبل) هست. فرآیند: صحبت کردیم که باید از (Bounding Box - با مشخص کردن موقعیتش) قسمت از متن استفاده کنی تا دور کلمات مربوط به هر فیلد توی (یا حتی اسکریپتهای سادهتر UBIAI, Label Studio مثل) ابزارهای لیبلگذاری رو بهش اختصاص بدی. خروجی این (PDF وان 17 تا واجهش اختصاص بدی. خروجی این (Boscription, product\_code مثلاً) نمونه، کادر بکشی و لیبل درست PDF اون 17 تا یا فرمتهای مشابه هست. چالش: لیبلگذاری فرآیندی زمان بر و دقیق هست و نیاز به حوصله داره. ISON فرآیند معمولاً فایلهای LayoutLM

هاگینگ فیس استفاده میکردیم تا یک transformers فرآیند: بعد از آماده شدن دادههای لیبلگذاری شده، باید از کتابخانههایی مثل کنیم. این یعنی مدل یاد (fine-tune) رو روی دادههای خودمون تنظیم دقیق (pretrained) از پیش آموزشدیده لمیلال مدل میگرفت که الگوهای موجود در اظهارنامههای گمرکی ما رو تشخیص بده. چالش: پیچیدگی فنی: نیاز به نصب کتابخانههای سنگین برای سرعت (GPU مثل) ، درک مفاهیم یادگیری ماشین و احتمالاً دسترسی به سختافزار مناسب(TensorFlow یا PyTorch مثل) ممکنه برای آموزش یک مدل خیلی دقیق و قابل تعمیم به همه انواع اظهارنامهها PDF بخشیدن به آموزش داشت. حجم داده: 17 تا ممکنه برای آموزش بودن: فرآیند آموزش، حتی با Regex

ترکیب Regex ایده: بعد از اینکه (فرضاً) مدل آموزش داده شده و میتونست فیلدها رو استخراج کنه، باید نتایجش رو با نتایج Regex میکردیم. استراتژیها: چند راه رو بررسی کردیم: اولویت با مدل: اول نتایج مدل رو برداریم، بعد جاهای خالی رو با نتایج این استراتژی رو توی کد هم) رو برداریم، بعد جاهای خالی رو با نتایج مدل پر کنیم Regex اول نتایج : اولویت با ترکیبی/بر اساس اطمینان: برای هر فیلد تصمیم بگیریم که نتیجه . (اجرا میشد Regex پیاده کردیم ولی چون مدل نداشتیم، عملاً فقط مثلاً بر اساس امتیاز اطمینان مدل یا قوانین مشخص). چالش: وابستگی به مدل: این مرحله کاملاً به موفقیت ) Regex مدل بهتره یا مرحله آموزش مدل وابسته بود. پیچیدگی منطق ترکیب: نوشتن کدی که بتونه نتایج دو منبع مختلف رو هوشمندانه ترکیب کنه و تداخلها رو مدیریت کنه، خودش چالشبرانگیز بود. چرا این مراحل (فعلاً) ناموفق بودند یا متوقف شدند؟

بود. عدم قطعیت Regex پیچیدگی و زمان: مراحل لیبلگذاری و آموزش مدل به مراتب پیچیدهتر و زمان برتر از تمرکز روی بهبود ، تضمینی نبود که مدل نهایی دقت خیلی بالایی داشته باشه و ارزش صرف اون (17 PDF) نتیجه مدل: با توجه به حجم داده محدود و اصلاح الگوهای PDF دیدیم که با صرف وقت بیشتر روی تحلیل ساختار :Regex همه زمان و انرژی رو داشته باشه. پیشرفت با رو به شکل قابل توجهی بهبود بدیم و به استخراج Regex ، تونستیم نتایج (کردیم package\_count مثل کاری که برای) :اکثر فیلدهای مورد نیاز نزدیک بشیم. نتیجه گیری

بذاریم، چون سریعتر به نتیجه میرسید و Regex تصمیم گرفتیم که فعلاً تمرکزمون رو روی بهینهسازی و پایدارسازی روش و ترکیب نتایج، یک مسیر کاملاً معتبر و قدرتمند هست، اما به عنوان یک LayoutLM پیچیدگی کمتری داشت. روش استفاده از مدل هایی مواجه بشیم که ساختار خیلی پیچیدهتر یا غیرقابل PDF بهبود بالقوه در آینده در نظر گرفته میشه، مخصوصاً اگر با ... به تنهایی از پسشون برنیاد Regex پیشبینیتری دارن و

// Project Structure

digraph {

"C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)" [label="pdf extracter(test)"]

"C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\.idea" [label=".idea"]

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_final" [label=layoutlm_farsi_model_final]
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- $\label{lem:c:start} C: "Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\. idea\inspectionProfiles "-> \\$
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\. idea\inspectionProfiles\Project \Default.xml" \\$
- $"C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\.idea\shelf" [label=shelf]$
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- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\.idea\shelf\Changes\s helved.patch" [label="shelved.patch"]
- C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\.idea\shelf\Changes" > C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\.idea\shelf\Changes\shelved.p atch"
- $"C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\.pytest\_cache" \\ [label=".pytest\_cache"]$
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 $\label=validation \label=validation \label=val$ 

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- $\label{lem:c:work} C: $$ C:$

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- $\label{lem:c:work} C: $$ C:$

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- $\label{thm:c:shown} $$ "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\images\_for_label ing\7 (9)_page_0.png" [label="7 (9)_page_0.png"]$
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- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\images\_for\_labeling\8 \\ (5)\_page\_0.png"$
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\images\_for\_label ing\8 (6)\_page\_0.png" [label="8 (6)\_page\_0.png"]
- C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\images\_for\_label ing" ->
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\images\_for\_labeling\8 (6)\_page\_0.png" \\$

- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\images\_for\_label ing\8 (7)\_page\_0.png" [label="8 (7)\_page\_0.png"]
- C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\images\_for\_label ing" ->
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\images\_for\_labeling\8 \cite{Condition} \labeling\PycharmProjects\PythonProject1\pdf_extracter(test)\data\images\_for\_labeling\PycharmProjects\PythonProject1\pdf_extracter(test)\data\images\_for\_labeling\PycharmProjects\PythonProjec$
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\images\_for\_label ing\8 (8)\_page\_0.png" [label="8 (8)\_page\_0.png"]
- C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\images\_for\_label ing" ->
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\images\_for\_labeling\8 (8)\_page\_0.png" \\$
- $"C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\images\_for\_labeling\8.1\ (2)\_page\_0.png" [label="8.1\ (2)\_page\_0.png"]$
- C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\images\_for\_label ing" ->
- C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\images\_for\_labeling\8.1 (2)\_page\_0.png"
- $\label $$ "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\images\_for\_label ing\8.1 (3)_page_0.png" [label="8.1 (3)_page_0.png"]$
- C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\images\_for\_label ing" ->
- C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\images\_for\_labeling\8.1 (3)\_page\_0.png"
- $"C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\images\_for\_labeling\9 (5)\_page\_0.png" [label="9 (5)\_page_0.png"]$
- C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\images\_for\_label ing" ->
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\images\_for\_labeling\9 (5)\_page\_0.png" \\$
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\images\_for\_label ing\9 (6)\_page\_0.png" [label="9 (6)\_page\_0.png"]
- C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\images\_for\_label ing" ->
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\images\_for\_labeling\9 \\ (6)\_page\_0.png"$
- $\label $$ "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\images\_for\_label ing\q200\_page\_0.png" [label="q200\_page_0.png"]$

- C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\images\_for\_labeling" ->
  C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\images\_for\_labeling\q20
  0 page 0.png"
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\images\_for\_label ing\q200\_page\_1.png" [label="q200\_page\_1.png"]
- $\label{liming} C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\images\_for\_labeling" -> \\ C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\images\_for\_labeling\q20 \\ 0\_page\_1.png"$
- $"C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\images\_for\_labeling\q200\_page\_2.png" [label="q200\_page_2.png"]$
- $\label{limiting} C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\images\_for\_labeling" -> \\ C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\images\_for\_labeling\q20 \\ 0\_page\_2.png"$
- $"C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\jason\_labled" [label=jason\_labled]$
- $"C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\jason\_labled\project-5-at-2025-04-18-09-36-514f7a4b.json" [label="project-5-at-2025-04-18-09-36-514f7a4b.json"]$
- C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\jason\_labled" -> C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\jason\_labled\project-5-at-2025-04-18-09-36-514f7a4b.json"
- $"C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" [label=regex\_outputs]$
- $"C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\0 \\ 7.14.1.json" [label="07.14.1.json"]$
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" > \\ C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\07.14.1.js on"$
- $"C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\0 \\ 7.16.1.json" [label="07.16.1.json"]$
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" > \\ C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\07.16.1.js on"$

- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\1 (21)\_page\_0.json" [label="1 (21)\_page\_0.json"]
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\1 (22).json" [label="1 (22).json"]
- $C: "Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" > C: "Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\1 (22).json"$
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\1 0 (4).json" [label="10 (4).json"]
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" > C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\10 \ (4).json"$
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\1 0 (5).json" [label="10 (5).json"]
- $C: "Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" > C: "Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\10 \ (5).json"$
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\1 403.05.11.json" [label="1403.05.11.json"]
- C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs" 
  C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\1403.05.1
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\1403.05.1\\1.json "$
- $\label{thm:c:star} $$ "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\1 403.05.24.json" [label="1403.05.24.json"]$
- C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs" ->
  C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\1403.05.2
- 4.json"

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403.10.10.json" [label="1403.10.10.json"]

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 $"C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\1403.10.15.json" [label="1403.10.15.json"]$ 

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5.json"

"C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\1 403.10.2.json" [label="1403.10.2.json"]

 $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" - > \\ C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\1403.10.2 \\ .json"$ 

"C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\1 403.10.24.json" [label="1403.10.24.json"]

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C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\1403.10.2
4.json"

 $\label{thm:c:star} $$ "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\1 403.10.9.json" [label="1403.10.9.json"]$ 

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"C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\1 403.7.14.json" [label="1403.7.14.json"]

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.ison"

"C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\1 403.7.18.json" [label="1403.7.18.json"]

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- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\1 403.7.2.json" [label="1403.7.2.json"]
- C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs" >
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- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\1403.7.2. json" \\$
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\1 403.7.24.json" [label="1403.7.24.json"]
- C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs" -
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\1403.7.24 . is on "$
- $\label{thm:c:star} $$ "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\1 403.9.17.json" [label="1403.9.17.json"]$
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs"-\cite{Continuous} and the continuous projects and the continuous projects and the continuous projects are continuous projects. The continuous projects are continuous projects and the continuous projects are continuous projects and the continuous projects are continuous projects. The continuous projects are continuous projects are continuous projects and the continuous projects are continuous projects. The continuous projects are continuous projects are continuous projects are continuous projects are continuous projects. The continuous projects are continuous projects are continuous projects are continuous projects are continuous projects. The continuous projects are continuous projects are continuous projects are continuous projects are continuous projects. The continuous projects are continu$
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\1403.9.17 . is on "$
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\1 403.9.21.json" [label="1403.9.21.json"]
- C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs" -
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\1403.9.21 . is on "$
- $\label{thm:c:star} $$ "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\1 403.9.6.json" [label="1403.9.6.json"]$
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\1403.9.6. json" \\$
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\3 (10).json" [label="3 (10).json"]
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" > C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\3 (10).json"$
- $"C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\3 1809198.json" [label="31809198.json"]$

- $C: "Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" -> \\ C: "Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\31809198 \\ .ison"$
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\3 1832672.json" [label="31832672.json"]
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" > \\ C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\31832672 \\ .ison"$
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\3 3770854.json" [label="33770854.json"]
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" > \\ C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\33770854 .ison"$
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\3 3816609.json" [label="33816609.json"]
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" > \\ C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\33816609 \\ .ison"$
- $\label{thm:c:star} $$ "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\3 3875182.json" [label="33875182.json"]$
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" > \\ C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\33875182 . ison"$
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\3 4072088.json" [label="34072088.json"]
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" > \\ C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\34072088 . json"$
- $\label{thm:c:star} $$ "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\3 4585347.json" [label="34585347.json"]$

- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\34585347.$  . is on "
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\3 4594553.json" [label="34594553.json"]
- C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs" -
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\34594553. is on "$
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\3 4614659.json" [label="34614659.json"]
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\34614659 \\ . is on "$
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\3 4645882.ison" [label="34645882.ison"]
- C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\34645882 .ison"
- $\label{thm:c:star} $$ "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\3 4670663.json" [label="34670663.json"]$
- C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs" -
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\34670663.$
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\3 4683243.json" [label="34683243.json"]
- C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs" ->
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\34683243. is on "$
- $\label{lem:c:shown} $$ "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\3 4771952.json" [label="34771952.json"]$
- C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs" -
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\34771952. is on "$

- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\3 4781478.json" [label="34781478.json"]
- C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs" ->
  C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\34781478
  .ison"
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\4 (11).json" [label="4 (11).json"]
- C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs" > C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\4 (11).json"
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\4 (12).json" [label="4 (12).json"]
- $C: "Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" > C: "Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\4 (12).json"$
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\4 (13).json" [label="4 (13).json"]
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" > C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\4 \ (13).json"$
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\4. 1 (5).json" [label="4.1 (5).json"]
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" > C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\4.1 (5).json"$
- $\label{lem:c:star} $$ "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\5 (10).json" [label="5 (10).json"]$
- $C: "Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" > C: "Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\5 (10).json"$
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\5 (11).json" [label="5 (11).json"]

- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\5. 1 (2).json" [label="5.1 (2).json"]
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" > C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\5.1 (2).json"$
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\5. 1 (3).json" [label="5.1 (3).json"]
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" > C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\5.1 (3).json"$
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\5. 1 (4).json" [label="5.1 (4).json"]
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" > C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\5.1 \ (4).json"$
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\5. 1 (5).json" [label="5.1 (5).json"]
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- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\6 (8).json" [label="6 (8).json"]
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" > C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\6 (8).json"$
- $\label{thm:c:star} $$ "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\6 (9).json" [label="6 (9).json"]$
- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" > C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\6 (9).json"$
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\6. 1 (2).json" [label="6.1 (2).json"]
- $C: "Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" -> C: "Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\6.1 (2).json"$
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\6. 1 (3).json" [label="6.1 (3).json"]

- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\6. 1 (4).ison" [label="6.1 (4).ison"]
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- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" > C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\6.1 (5).json"$
- $"C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\7 \end{put} \label{lem:continuous} \label{lem:continuous}$
- $C: "Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" > C: "Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\7 \ (8).json"$
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- $C: "Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" > C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\7 \eqno(9).json"$
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\8 (7).json" [label="8 (7).json"]
- C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs" > C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\8 (7).json"
- $\label{thm:c:star} $$ "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\8 (8).json" [label="8 (8).json"]$
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\8. 1 (2).json" [label="8.1 (2).json"]

- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" > C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\8.1 \ (2).json"$
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- $C: "Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs" -> C: "Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\regex\_outputs\8.1 (3).json"$
- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\regex\_outputs\9 (5).json" [label="9 (5).json"]
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- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\training\1 (22).pdf" [label="1 (22).pdf"]
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- $"C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\training\10 \eqno(4).pdf" [label="10 (4).pdf"]$
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- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\training\10 (5).pdf" [label="10 (5).pdf"]
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- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\training\1403.7.1 4.pdf" [label="1403.7.14.pdf"]

- C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\training" -> C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\training\1403.7.14.pdf"
- $\label{thm:conversed} $$ "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\training\1403.7.1 \\ 8.pdf" [label="1403.7.18.pdf"]$
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- $"C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\training\1403.7.2.pdf" [label="1403.7.2.pdf"]$
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- $\label{thm:conversed} $$ "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\training\3183267 2.pdf" [label="31832672.pdf"]$
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- $\label{thm:conversed} $$ "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\data\training\4 (11).pdf" [label="4 (11).pdf"]$
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- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\data\training\5.1 (3).pdf" [label="5.1 (3).pdf"]
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 $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\layoutlm\_farsi\_model\checkpoint-135\scheduler.pt" \\$ 

 $\label{thm:continuous} $$ "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\label=\mbox{model} $$ \checkpoint-135\special\_tokens\_map.json" [label="special\_tokens\_map.json"] $$$ 

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 $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\layoutlm\_farsi\_model\checkpoint-135\special\_tokens\_map.json" \\$ 

 $\label{thm:continuous} $$ "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\label="tokenizer.json"] $$$ 

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 $\label{thm:charmprojects} $$ "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\layoutlm_farsi_model\checkpoint-135\vocab.txt" [label="vocab.txt"]$ 

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"C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\layoutlm\_farsi\_model \_final" [label=layoutlm\_farsi\_model\_final]

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 $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\layoutlm\_farsi\_model\_final\config.ison"$ 

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- C:"\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\layoutlm\_farsi\_model \_final" ->
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- "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf\_extracter(test)\layoutlm\_farsi\_model \_final\special\_tokens\_map.json" [label="special\_tokens\_map.json"]
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- $C: "\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\layoutlm\_farsi\_model\_final\tokenizer.json"$
- $\label{thm:config.json} $$ "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\layoutlm_farsi_model $$ _final\tokenizer\_config.json" [label="tokenizer_config.json"] $$$
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- $\label{thm:conversed} $$ "C:\Users\Mohsen\PycharmProjects\PythonProject1\pdf_extracter(test)\logs\evaluation\_results $$ $$ [label=evaluation\_results] $$$
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ment_classifier.cpython-312.pyc"
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}

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