

Федеральное государственное бюджетное образовательное
учреждение высшего образования
«МИРЭА – Российский Технологический Университет»

Отчёт по практической работе №3: «KNIME Deep Learning - Keras»

Подготовила студентка
группы ББМО-01-21
Концевая Юлия

Создание окружающей среды

The image shows two side-by-side screenshots of the KNIME Preferences dialog, specifically the 'Python' and 'Python Deep Learning' sections.

Left Screenshot (Python Preferences):

- Navigation:** A tree view on the left shows categories like General, Install/Update, KNIME, Chemistry, Customization Profiles, Databases, Databases (legacy), DeepLearning4J Integrati, JavaScript Views, KNIME Explorer, KNIME GUI, Kerberos, Master Key, Meta Info Preferences, Open Street Map, Perl, Preferred Renderers, **Python** (selected), Python Deep Learning, R, Table Backend, TensorFlow, Textprocessing, and Workflow Coach.
- Python Section:**
 - Header: **Python**
 - Text: See [this guide](#) for details on how to install Python for use with KNIME.
 - Python version to use by default: ☐ Python 2 ☒ Python 3
 - Python environment configuration: ☒ Conda ☐ Manual
 - Conda Section:
 - Path to the Conda installation directory: C:\Users\Home\anaconda3
 - Conda version: 4.6.11
 - Python 2 Section:
 - Name of the Python 2 Conda environment: py2_knime [dropdown] [New environment...]
 - Python version: 2.7.18
 - Python 3 (Default) Section:
 - Name of the Python 3 Conda environment: py3_knime [dropdown] [New environment...]
 - Python version: 3.6.13
 - Serialization library: Flatbuffers Column Serialization [dropdown]

Right Screenshot (Python Deep Learning Preferences):

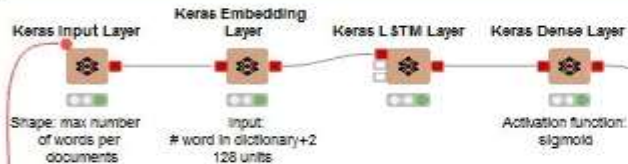
- Navigation:** The same tree view as the left screenshot, with **Python Deep Learning** selected.
- Python Deep Learning Section:**
 - Header: **Python Deep Learning**
 - Text: See [this guide](#) for details on how to setup the KNIME Deep Learning integration.
 - Use configuration from the "Python" preference page: ☐ (disabled)
 - Use special Deep Learning configuration as defined below: ☒ (active)
 - Library used for the "DL Python" scripting nodes: ☒ Keras ☐ TensorFlow 2
 - Deep Learning Python environment configuration: ☒ Conda ☐ Manual
 - Conda Section:
 - Path to the Conda installation directory: C:\Users\Home\anaconda3
 - Conda version: 4.6.11
 - Keras Section:
 - Name of the Keras Conda environment: py3_knime_dl [dropdown] [New environment...]
 - Python version: 3.6.13
 - TensorFlow 2 Section:
 - Name of the TensorFlow 2 Conda environment: py3_knime_tf2_1 [dropdown] [New environment...]
 - Python version: 3.6.13

Sentiment_Analysis_with_Deep_Learning_KNIME_nodes

Sentiment Analysis on IMDB movie reviews

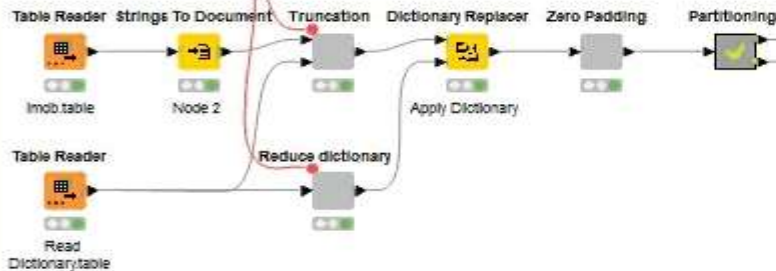
This workflow shows how to train a simple neural network for text classification, in this case sentiment analysis. The used network learns a 128 dimensional word embedding followed by an LSTM.

Define Network

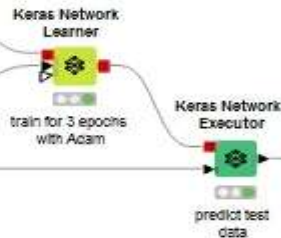


Preprocessing

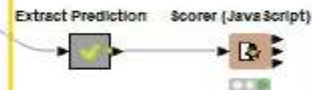
Define document and dictionary size



Training and Predicting



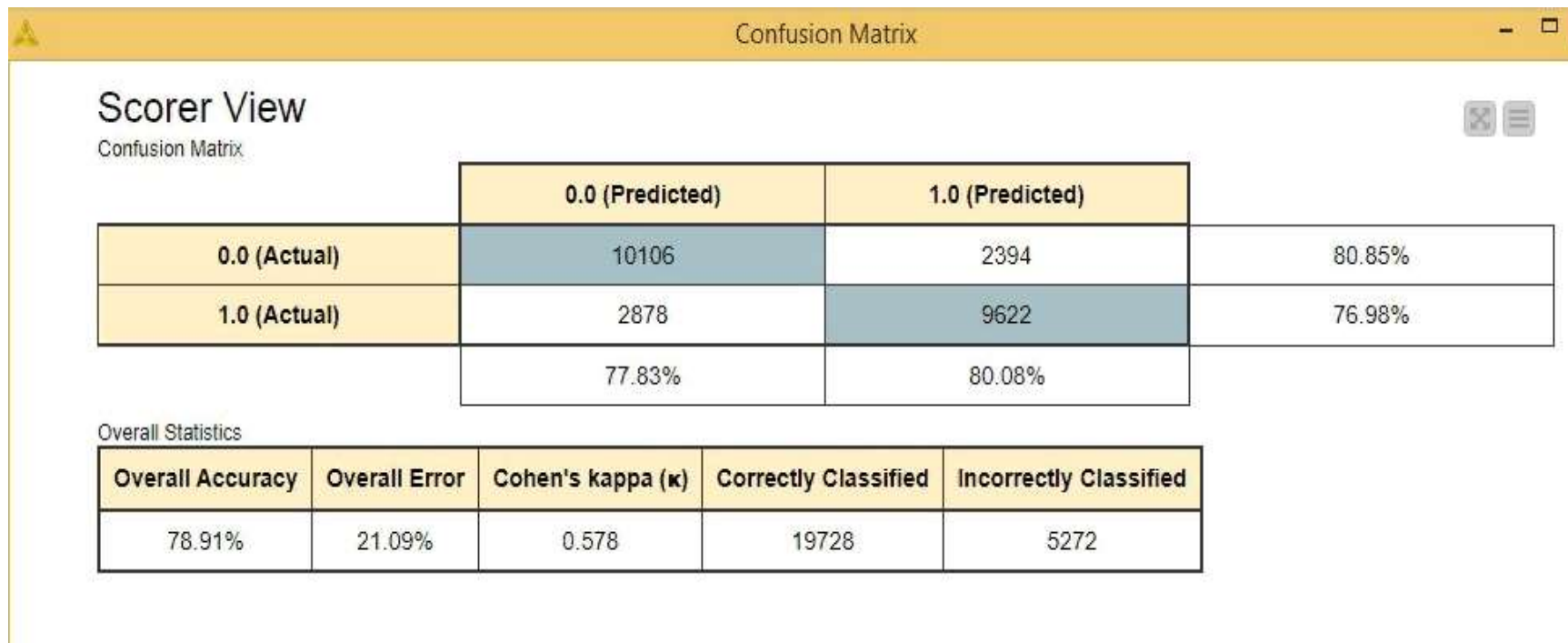
Evaluation



Набор данных

Row ID	Text	Senti.
Row0	Story of a man who has unnatural feelings for a pig. Starts out with a opening scene that is a terrific example of absurd comedy. A formal orchestra audience is turned into an insane, violent mob by the crazy chanting of a's Eric Forrest can be seen briefly.	0
Row1	Airport '77 starts as a brand new luxury 747 plane is loaded up with valuable paintings & such belonging to rich businessman Philip Stevens (James Stewart) who is flying them & a bunch of VIP's to his estate in preparation of rgo & land on a disused plan...	0
Row2	This film lacked something I couldn't put my finger on at first: charisma on the part of the leading actress. This inevitably translated to lack of chemistry when she shared the screen with her leading man. Even the romantic scching else. He never convince...	0
Row3	Sorry everyone... I know this is supposed to be an art film, but wow, they should have handed out guns at the screening so people could blow their brains out and not watch. Although the scene design and photographic dref can you take? The only thing...	0
Row4	When I was little my parents took me along to the theater to see Interiors. It was one of many movies I watched with my parents, but this was the only one we walked out of. Since then I had never seen Interiors until just recentmage caused by divorce, estr...	0
Row5	It appears that many critics find the idea of a Woody Allen drama unpalatable. And for good reason: they are unbearably wooden and pretentious imitators of Bergman. And let's not kid ourselves: critics were mostly supportive.	0
Row6	The second attempt by a New York intellectual in less than 10 years to make a Swedish film - the first being Susan Sontag's brother Carl (which was made in Sweden, with Swedish actors, no less!) The results? Oscar Wilde said: The incredibly self-involv...	0
Row7	I don't know who to blame, the timid writers or the clueless director, it seemed to be one of those movies where so much was paid to the stars (Angie, Charlie, Denise, Rosanna and Jon) that there wasn't enough left to really rthey were only looking for lau...	0
Row8	This film is mediocre at best. Angie Harmon is as funny as a bag of hammers. Her bitchy demeanor from Law and Order carries over in a failed attempt at comedy. Charlie Sheen is the only one to come out unscathed in this ho...	0
Row9	The film is bad. There is no other way to say it. The story is weak and outdated, especially for this country. I don't think most people know what a walker is or will really care. I felt as if I was watching a movie from the 70's. The sh them. He jumped from one ...	0
Row10	This film is one giant pant load. Paul Schrader is utterly lost in his own bad screenplay. And his directing is about as comatose as it can be without his actually having been sleepwalking during the process. The w< decreases from the begin...	0
Row11	The plot for Descent, if it actually can be called a plot, has two noteworthy events. One near the beginning - one at the end. Together these events make up maybe 5% of the total movie time. Everything (and I mean everything even in the NC-17 version, w...	0
Row12	Plot is not worth discussion even if it hints at corruption, murder, power and the rest of thriller related topics. Characters are interesting though sometimes. Not realistic but interesting nevertheless. Development ratchable and better than mo...	0
Row13	This film is about a male escort getting involved in a murder investigation that happened in the circle of powerful men's wives. I thought The Walker would be thrilling and engaging, but I was so wrong. The pacing is higher social class? ...	0
Row14	This movie must be in line for the most boring movie in years. Not even woody Harrison can save this movie from sinking to the bottom. The murder in this movie are supposed to be the point of interest in this movie and probably see this mo...	0
Row15	A worn-out plot of a man who takes the rap for a woman in a murder case + the equally worn-out plot of an outsider on the inside who eventually is shut out. With such an outstanding case, one would think the fiske a more compelling picture...	0
Row16	I saw this movie at a drive in in 1958. Until Howard the Duck I considered this the worst movie I had ever seen. This movie tried to combine all the genres in one: comedy, horror, teenage angst, and the hot rod that must have	0
Row17	Ghost of Dragstrip Hollow is a typical 1990's teens in turmoil movie. It is not a horror or science fiction movie. Plot concerns a group of teens who are about to get kicked out of their hot rod club because they cannot meet the	0
Row18	Ghost of Dragstrip Hollow was one of the many '50s movies about hot-roddeing teens encountering the supernatural. In this case, the teens can't pay the rent for their hangout and get evicted. With nowhere else to go, they drinking movie, but he said thi...	0
Row19	Ghost of Dragstrip Hollow appears to take place in a spotless netherworld, an era long gone by, where the biggest sin a kid could commit would be in defying the law and getting a traffic ticket. It opens with a young female outright weird come out for so...	0
Row20	The characters are unlikeable and the script is awful. It's a waste of the talents of Deneuve and Auteuil.	0
Row21	Kareena Kapoor in a bikini hmmmnnnnnnn. Akshay Kumar... Anil Kapoor... Maya Saf... Kareena Kapoor in a bikini... Good Banner... Kareena Kapoor (XCK STOCK AND SNATCH ...	0
Row22	I rented this on DVD and I kind of feel bad since Dawson and Lucy are so earnest about it in the DVD comments. It's not a bad movie exactly, but it's one of those films that desperately wants to be a deep comment on humenore and more artfully. And t...	0
Row23	Vijay Krishna Acharya's 'Tashar' is a over-hyped, stylized, product. Sure it's one of the most stylish films, but when it comes to content, even the masses will reject this one. Why? The films script is as amateur as a 2 year old great actor, in fact he's the s...	0
Row24	The worst movie I have seen since Teri Jadoo Chal Gaya. There is no story, no humor, no nothing! The action sequences seem more like a series of haphazard Akshay Kumar Thumbs-Up advertisements stitched together. Heavut every time I think I have s...	0
Row25	Summer season is here when the choices in the cinemas are limited to what's the hottest movie of the week, given 99.9% of the screens dedicated to screening it. Ok, so I may exaggerate on the percentage, but you get my After watching it, I knew why. I...	0
Row26	Shame on Yash Raj films and Aditya Chopra who seems to have lost their intelligence over the years and providing steady fare of tripe in this piece of cinematic crap that's not even worth you Tube standards. I was gritting my t& in your choice of film. Karee...	0
Row27	First lesson that some film makers (particularly those inspired by Hollywood) need to know - just 'style' does not sell. I guess Tashan when translated will mean style. Second, if you are hell bent on selling style, that does not s&br />Choreography of the fi...	0
Row28	If this is a 2008 product from one of the biggest production houses of Indian Film Industry (Yash Raj) then I am afraid it is a very long ahead for us to reach the right standards. If you can go wrong to this length w& into a river from the mountai...	0
Row29	I had some expectation for the movie, since it had a nice star cast and it is the return of the duo of Akshay and Saf. Well, I was hesitant to watch the movie because this was done by the same man who wrote the story for Dhok&. It was like Akshay agams...	0
Row30	The action in this movie beats Sunny Bhai in Gadar. Akshay Kumar possess the superpowers of Leonidus in 300, Neo in Matrix along with Spiderman and Superman. It is hilarious. Except for the typical Akshay Kumar and Anil Kapoor it is the least I can give on IM...	0
Row31	I had a lot of expectations from this movie and more so since it was a Yashraj Film. Jimmy operates a call centre and one day he is invited by Pooja Singh to teach her boss, Lakshan Singh, English. The two fall in lov&, Anil Kapoor and Akshay& Ku...	0
Row32	I had no idea what the film is about before I saw it because Tashan only had teaser trailers while it was being promoted. So I asked my friends if they knew anything about it and they said that it is the directoral debut of Vijay... 	0
Row33	I don't want to go too far into detail, because I can't really justify wasting much time on reviewing this film, but I had to give an alternate opinion to hopefully help people avoid the movie. The animation is crud and the story ar...	0

Результаты предсказания



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