CHATBOT PROJECT 1

NLP 6320 **AXG230010**

About the Project:

The purpose of this project is to create a David Fincher fan chatbot. David Fincher is a highly regarded filmmaker in Hollywood and hopefully my chatbot can help you learn a few things about him in case you didn't know earlier.

Part 1: Web Crawler:

- For part 1, to start off with, in the **'crawl.py'** file, I have taken 2 starter URLs related to David Fincher. Then, functions are defined to ensure that the URLs crawled to are outside of the starting URL and to ensure that links ending with ".php", ".pdf", ".jpg", etc., are not considered. The URLs are stored in the variable 'result', which is a list of all the URLs. Once the URLs are collected, their data is scraped and stored in separate files. For this project, I have considered a maximum of 25 URLs, but a couple of them denied access to be scraped from. So, I'd arrived at 23 URLs' data being scraped into 23 files.

- Now, these 23 files are then preprocessed in the **'clean.py'** file, where URLs, and non-alphanumeric characters are removed from the raw text. Upon cleaning the text files, they are combined into a single text file. This is done to extract the most important terms across all the files. This can be seen in the **'combine_files.py'** file. Then, in the **'important_terms.py'** file, the 40 most important terms are found. Here, TF-IDF is used to find them.

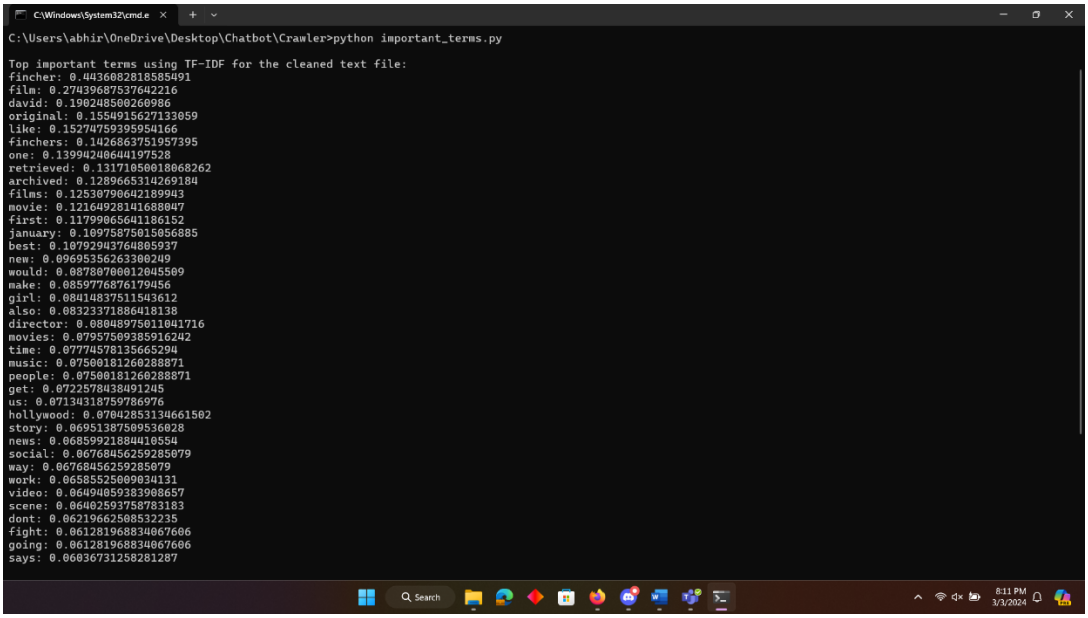
- Upon finding the important terms, I have manually picked 12 of them which I felt were the most relevant to the topic. Then, for the knowledge base creation, the file **'kb_create'** is run, which initializes an empty dictionary with these terms as keys. For each important term, it loops through the sentences in the combined file and adds those with the term present in it to the list under that key. The knowledge base is pickled into a file, which is then loaded into the Chatbot for part 2. A readable version of the knowledge base can be viewed in the file **'kbdict.txt'**. It contains the 12 important terms as keys and sentences under them are the keys' values.

The important terms of the project are:

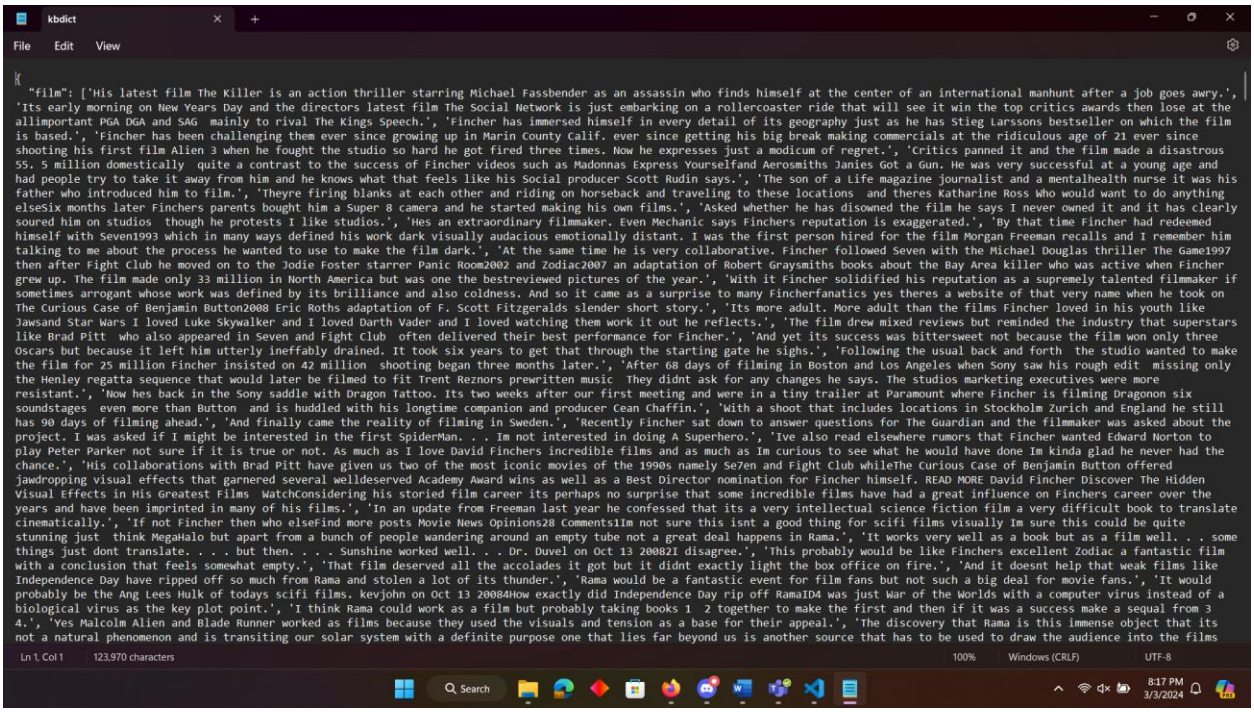
1. Film
2. Music
3. Writer
4. Adaptation
5. Thriller
6. Noir
7. Reznor

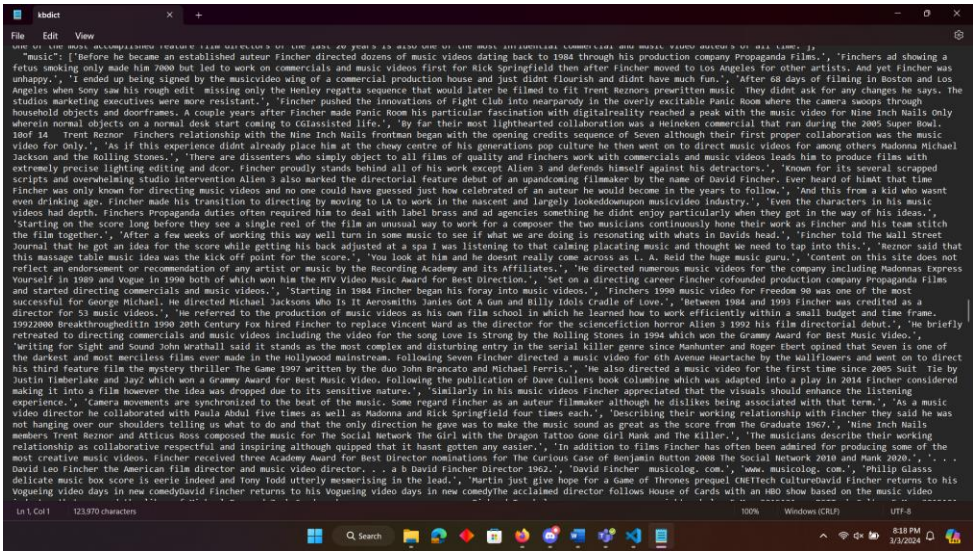
8. Alien
9. Propaganda
10. Award
11. Zuckerberg
12. Sorkin

Below I'm attaching a screenshot of the important terms calculated using TF-IDF.



The knowledge base screenshots can be seen below. These are some images taken from the readable version of the knowledge base.

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"music": ['Before he became an established auteur Fincher directed dozens of music videos dating back to 1984 through his production company Propaganda Films.', 'Finchers ad showing a fetus smoking only made him 7000 but led to work on commercials and music videos first for Rick Springfield then after Fincher moved to Los Angeles for other artists. And yet Fincher was unhappy.', 'I ended up being signed by the musicvideo wing of a commercial production house and just didnt flourish and didnt have much fun.', 'After 68 days of filming in Boston and Los Angeles when Sony saw his rough edit missing only the Henley regatta sequence that would later be filmed to fit Trent Reznors prewritten music they didnt ask for any changes he says. The studios marketing executives were more resistant.', 'Fincher pushed the innovations of Fight Club into nearparody in the overly excitable Panic Room where the camera swoops through household objects and doorframes. A couple years after Fincher made Panic Room his particular fascination with digitalreality reached a peak with the music video for Nine Inch Nails Only wherein normal objects on a normal desk start coming to CGIassisted life.', 'By far their most lighthearted collaboration was a Heineken commercial that ran during the 2005 Super Bowl. 10of 14 Trent Reznor Finchers relationship with the Nine Inch Nails frontman began with the opening credits sequence of Seven although their first proper collaboration was the music video for Only.', 'As if this experience didnt already place him at the chewy centre of his generations pop culture he then went on to direct music videos for among others Madonna Michael Jackson and the Rolling Stones.', 'There are dissenters who simply object to all films of quality and Finchers work with commercials and music videos leads him to produce films with extremely precise lighting editing and dcor. Fincher proudly stands behind all of his work except Alien 3 and defends himself against his detractors.', 'Known for its several scrapped scripts and overwhelming studio intervention Alien 3 also marked the directorial feature debut of an upandcoming filmmaker by the name of David Fincher. Ever heard of himAt that time Fincher was only known for directing music videos and no one could have guessed just how celebrated of an auteur he would become in the years to follow.', 'And this from a kid who wasnt even drinking age. Fincher made his transition to directing by moving to LA to work in the nascent and largely lookeddownupon musicvideo industry.', 'Even the characters in his music videos had depth. Finchers Propaganda duties often required him to deal with label brass and ad agencies something he didnt enjoy particularly when they got in the way of his ideas.', 'Starting on the score long before they see a single reel of the film an unusual way to work for a composer the two musicians continuously hone their work as Fincher and his team stitch the film together.', 'After a few weeks of working this way well turn in some music to see if what we are doing is resonating with whats in Davids head.', 'Fincher told The Wall Street Journal that he got an idea for the score while getting his back adjusted at a spa I was listening to that calming placating music and thought We need to tap into this.', 'Reznor said that this massage table music idea was the kick off point for the score.', 'You look at him and he doesnt really come across as L. A. Reid the huge music guru.', 'Content on this site does not reflect an endorsement or recommendation of any artist or music by the Recording Academy and its Affiliates.', 'He directed numerous music videos for the company including Madonnas Express Yourself in 1989 and Vogue in 1990 both of which won him the MTV Video Music Award for Best Direction.', 'Set on a directing career Fincher cofounded production company Propaganda Films and started directing commercials and music videos.', Starting in 1984 Fincher began his foray into music videos.', 'Finchers 1990 music video for Freedom 90 was one of the most successful Georgie Michael. He directed Michael Jacksons Cradle To It Awesome Sauce and Ill Be There for You and Ijkxis Cradle of Love.', 'Between 1984 and 1993 Fincher was credited as a director for 53 music videos.', 'He referred to the production of music videos as his own film school in which he learned how to work efficiently within a small budget and time frame. 19922000 BreakthrougheditIn 1990 20th Century Fox hired Fincher to replace Vincent Ward as the director for the sciencefiction horror Alien 3 1992 his film directorial debut.', 'He briefly retreated to directing commercials and music videos including the video for the song Love Is Strong by the Rolling Stones in 1994 which won the Grammy Award for Best Music Video.', 'Writing for Sight and Sound John Wrathall said it stands as the most complex and disturbing entry in the serial killer genre since Manhunter and Roger Ebert opined that Seven is one of the darkest and most merciless films ever made in the Hollywood mainstream. Following Seven Fincher directed a music video for Aerosmiths Hole in the Wall Towers and went on to direct his third feature film the mystery thriller The Game 1997 written by the duo John Brancato and Michael Ferris.', 'He also directed a music video for the first time since 2005 Suit Tie by Justin Timberlake and JayZ which won a Grammy Award for Best Music Video. Following the publication of Dave Cullens book Columbine which was adapted into a play in 2014 Fincher considered making it into a film however the idea was dropped due to its sensitive nature.', 'Similarly in his music videos Fincher appreciated that the visuals should enhance the listening experience.', 'Camera movements are synchronized to the beat of the music. Some regard Fincher as an auteur filmmaker although he dislikes being associated with that term.', 'As a music video director he collaborated with Paula Abdul five times as well as Madonna and Rick Springfield four times each.', 'Describing their working relationship with Fincher they said he was not hanging over our shoulders telling us what to do and that the only direction he gave was to make the music sound as great as the score from The Graduate 1967.', 'Nine Inch Nails members Trent Reznor and Atticus Ross composed the music for The Social Network The Girl with the Dragon Tattoo Gone Girl Mank and The Killer.', 'The musicians describe their working relationship as collaborative respectful and inspiring although quipped that it hasnt gotten any easier.', 'In addition to films Fincher has often been admired for producing some of the most creative music videos. Fincher received three Academy Award for Best Director nominations for The Curious Case of Benjamin Button 2008 The Social Network 2010 and Mank 2020.', ' . . . David Leo Fincher the American film director and music video director. . . a b David Fincher Director 1962.', 'David Fincher musicvideog. com.', 'www. musicvideog. com.', 'Philip Glasss delicate music box score is eerie indeed and Tony Todd utterly mesmerising in the lead.', 'Martin just give hope for a Game of Thrones prequel CNETTech CultureDavid Fincher returns to his Vogueing video days in new comedyDavid Fincher returns to his Vogueing video days in new comedythe acclaimed director follows House of Cards with an HBO show based on the music video
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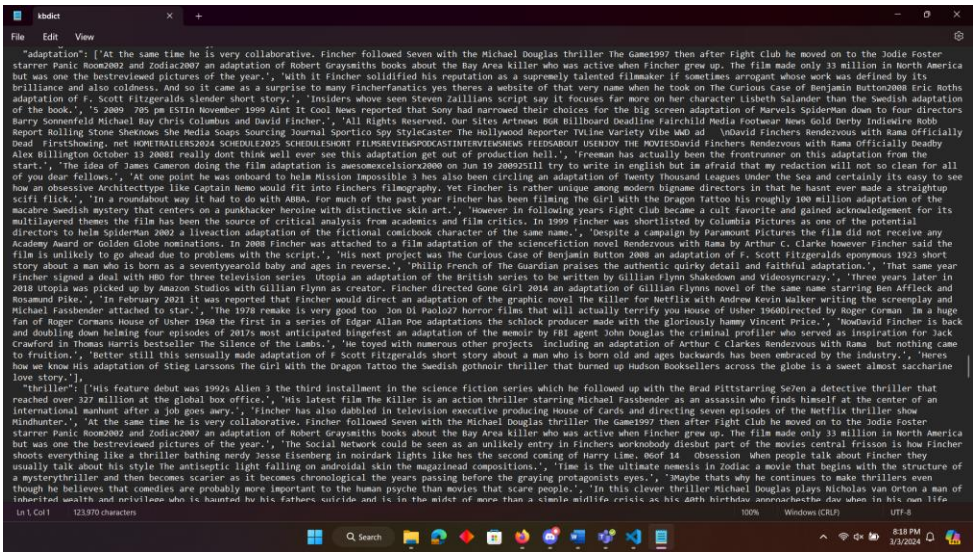
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"adaptation": ['At the same time he is very collaborative. Fincher followed Seven with the Michael Douglas thriller The Game1997 then after Fight Club he moved on to the Jodie Foster starrer Panic Room2002 and Zodiac2007 an adaptation of Robert Graysmiths books about the Bay Area killer who was active when Fincher grew up. The film made only 33 million in North America but was one the bestreviewed pictures of the year.', 'With it Fincher solidified his reputation as a supremely talented filmmaker if sometimes arrogant whose work was defined by its brilliance and also coldness. And so it came as a surprise to many Finchersfanatics yes theres a website of that very name when he took on The Curious Case of Benjamin Button2008 Eric Roths adaptation of F. Scott Fitzgeralds slender short story.', 'Insiders whove seen Steven Zaillians script say it focuses far more on her character Lisbeth Salander than the Swedish adaptation of the book.', 'S 2009 705 pm ESTIn November 1999 Aint It Cool News reported that Sony had narrowed their choices for the big screen adaptation of Marvels SpiderMan down to four directors Barry Sonnenfeld Michael Bay Chris Columbus and David Fincher.', 'All Rights Reserved. Our Sites Artnews BGR Billboard Deadline Fairchild Media Footwear News Gold Derby Indiewire Robb Report Rolling Stone SheKnows She Media Soaps Sourcing Journal Sportico Spy StyleCaster The Hollywood Reporter TVLine Variety Vibe WWD ad \nDavid Finchers Rendezvous with Rama Officially Dead FirstShowing. net HOMETRAILERS2024 SCHEDULE2025 SCHEDULESHORT FILMSREVIEWSPODCASTINTERVIEWSNEWS FEEDSABOUT USENJOY THE MOVIESDavid Finchers Rendezvous with Rama Officially Deadby Alex Billington October 13 2008I really dont think well ever see this adaptation get out of production hell.', 'Freeman has actually been the frontrunner on this adaptation from the start.', 'The idea of James Cameron doing the film adaptation is awesomecolossal2000 on Jun 19 2009251Il try to write in english but im afraid that my redaction will not so clean for all of you dear fellows.', 'At one point he was onboard to helm Mission Impossible 3 hes also been circling an adaptation of Twenty Thousand Leagues Under the Sea and certainly its easy to see how an obsessive Architecttype like Captain Nemo would fit into Finchers filmography. Yet Fincher is rather unique among modern bigname directors in that he hasnt ever made a straightup scifi flick.', 'In a roundabout way it had to do with ABBA. For much of the past year Fincher has been filming The Girl with the Dragon Tattoo his roughly 100 million adaptation of the macabre Swedish mystery that centers on a punkhacker heroine with distinctive skin art.', 'However in following years Fight Club became a cult favorite and gained acknowledgement for its multilayered themes the film has been the source of critical analysis from academics and film critics. In 1999 Fincher was shortlisted by Columbia Pictures as one of the potential directors to helm SpiderMan 2002 a liveaction adaptation of the fictional comicbook character of the same name.', 'Despite a campaign by Paramount Pictures the film did not receive any Academy Award or Golden Globe nominations. In 2008 Fincher was attached to a film adaptation of the sciencefiction novel Rendezvous with Rama by Arthur C. Clarke however Fincher said the film is unlikely to go ahead due to problems with the script.', 'His next project was The Curious Case of Benjamin Button 2008 an adaptation of F. Scott Fitzgeralds eponymous 1923 short story about a man who is born as a seventyyearold baby and ages in reverse.', 'Philip French of The Guardian praises the authentic quirky detail and faithful adaptation.', 'That same year Fincher signed a deal with HBO for three television series. Utopia is an adaptation of the British series to be written by Gillian Flynn Shakedown and Videosyncrasy.', 'HBO three years later in 2018 Utopia was picked up by Amazon Studios with Gillian Flynn as creator. Fincher directed Gone Girl 2014 an adaptation of Gillian Flynns novel of the same name starring Ben Affleck and Rosamund Pike.', 'In February 2021 it was reported that Fincher would direct an adaptation of the graphic novel The Killer for Netflix with Andrew Kevin Walker writing the screenplay and Michael Fassbender attached to star.', 'The 1978 remake is very good too Jon Di Paolo27 horror films that will actually terrify you House of Usher 1960Directed by Roger Corman Im a huge fan of Roger Cormans House of Usher 1960 the first in a series of Edgar Allan Poe adaptations the schlock producer made with the gloriously hammy Vincent Price.', 'NowDavid Fincher is back and doubling down helming four episodes of 2017s most anticipated binges an adaptation of the memoir by FBI agent John Douglas the criminal profiler who served as inspiration for Jack Crawford in Thomas Harris bestseller The Silence of the Lambs.', 'He toyed with numerous other projects including an adaptation of Arthur C Clarkes Rendezvous With Rama but nothing came to fruition.', 'Better still this sensually made adaptation of F Scott Fitzgeralds short story about a man who is born old and ages backwards has been embraced by the industry.', 'Heres how we know His adaptation of Stieg Larssons The Girl With the Dragon Tattoo the Swedish gothnoir thriller that burned up Hudson Booksellers across the globe is a sweet almost saccharine love story.'],
"thriller": ['His feature debut was 1992s Alien 3 the third installment in the science fiction series which he followed up with the Brad Pittstarring Se7en a detective thriller that reached over 327 million at the global box office.', 'His latest film The Killer is an action thriller starring Michael Fassbender as an assassin who finds himself at the center of an international manhunt after a job goes awry.', 'Fincher has also dabbled in television executive producing House of Cards and directing seven episodes of the Netflix thriller show Mindhunter.', 'At the same time he is very collaborative. Fincher followed Seven with the Michael Douglas thriller The Game1997 then after Fight Club he moved on to the Jodie Foster starrer Panic Room2002 and Zodiac2007 an adaptation of Robert Graysmiths books about the Bay Area killer who was active when Fincher grew up. The film made only 33 million in North America but was one the bestreviewed pictures of the year.', 'The Social Network could be seen as an unlikely entry in Finchers worknobody diesbut part of the movies central frisson is how Fincher shoots everything like a thriller bathing nerdy Jesse Eisenberg in noirdark lights like hes the second coming of Harry Lime. 06of 14 Obsession When people talk about Fincher they usually talk about his style The antiseptic light falling on androidal skin the magazinead compositions.', 'Time is the ultimate nemesis in Zodiac a movie that begins with the structure of a mysterythriller and then becomes scarier as it becomes chronological the years passing before the graying protagonists eyes.', 'Maybe thats why he continues to make thrillers even though he believes that comedies are probably more important to the human psyche than movies that scare people.', 'In this clever thriller Michael Douglas plays Nicholas van Orton a man of inherited wealth and privilege who is haunted by his fathers suicide and is in the midst of more than a simple midlife crisis as his 48th birthday approachesthe day when in his own life
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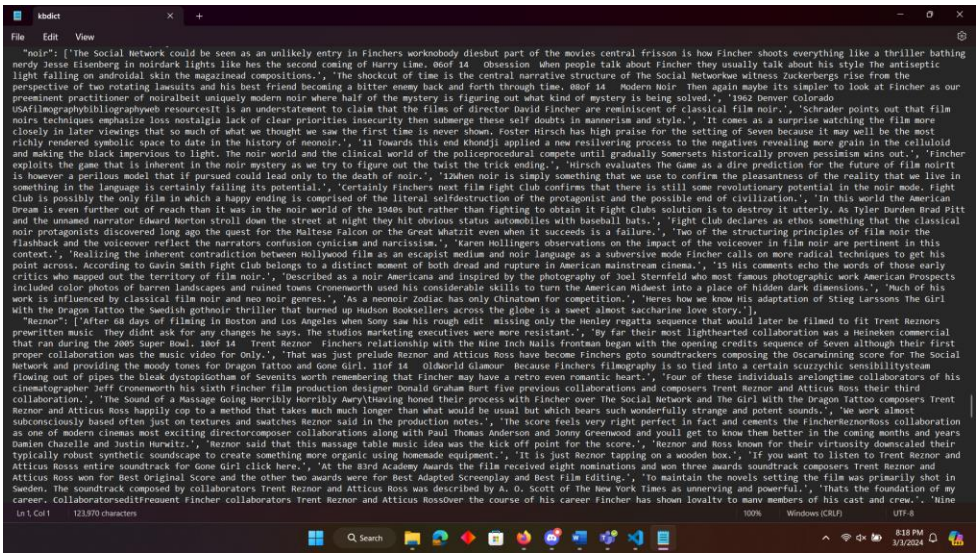
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"Reznor": ['After 68 days of filming in Boston and Los Angeles when Sony saw his rough edit missing only the Henley regatta sequence that would later be filmed to fit Trent Reznors prewritten music They didnt ask for any changes he says. The studios marketing executives were more resistant.', 'By far their most lighthearted collaboration was a Heineken commercial that ran during the 2005 Super Bowl. 10of 14 Trent Reznor Finchers relationship with the Nine Inch Nails frontman began with the opening credits sequence of Seven although their first proper collaboration was the music video for Only.', 'That was just prelude Reznor and Atticus Ross have become Finchers goto soundtrackers composing the Oscarwinning score for The Social Network providing the moody tones for Dragon Tattoo and Gone Girl. Unif ie Oldboyish Glamour Reznor and Ross Nightcrawlers is so tied into a certain scuzzychic sensibilityhaven flowing out of pipes the bleak dystopiGotham of Sevenits worth remembering that Fincher may have a retro even romantic heart.', 'Four of these individuals arelongtime collaborators of his cinematographer Jeff Cronenworth his sixth Fincher film production designer Donald Graham Burt five previous collaborations and composers Trent Reznor and Atticus Ross their third collaboration.', 'The Sound of a Massage Going Horribly Horribly Awry\tHaving honed their process with Fincher over The Social Network and The Girl With the Dragon Tattoo composers Trent Reznor and Atticus Ross happily cop to a method that takes much much longer than what would be usual but which bears such wonderfully strange and potent sounds.', 'We work almost subconsciously based often just on textures and swatches Reznor said in the production notes.', 'The score feels very right perfect in fact and cements the FincherReznorRoss collaboration as one of modern cinemas most exciting directorcomposer collaborations along with Paul Thomas Anderson and Jonny Greenwood and youll get to know them better in the coming months and years Damien Chazelle and Justin Hurwitz.', 'Reznor said that this massage table music idea was the kick off point for the score.', 'Reznor and Ross known for their virtuosity downscaled their typically robust synthetic soundscape to create something more organic using homemade equipment.', 'It is just Reznor tapping on a wooden box.', 'If you want to listen to Trent Reznor and Atticus Rosss entire soundtrack for Gone Girl click here.', 'At the 83rd Academy Awards the film received eight nominations and won three awards soundtrack composers Trent Reznor and Atticus Ross won for Best Original Score and the other two awards were for Best Adapted Screenplay and Best Film Editing.', 'To maintain the novels setting the film was primarily shot in Sweden. The soundtrack composed by collaborators Trent Reznor and Atticus Ross was described by A. O. Scott of The New York Times as unnerving and powerful.', 'Thats the foundation of my career. CollaboratorseditFrequent Fincher collaborators Trent Reznor and Atticus RossOver the course of his career Fincher has shown lovaltv to manv members of his cast and crew.'. 'Nine
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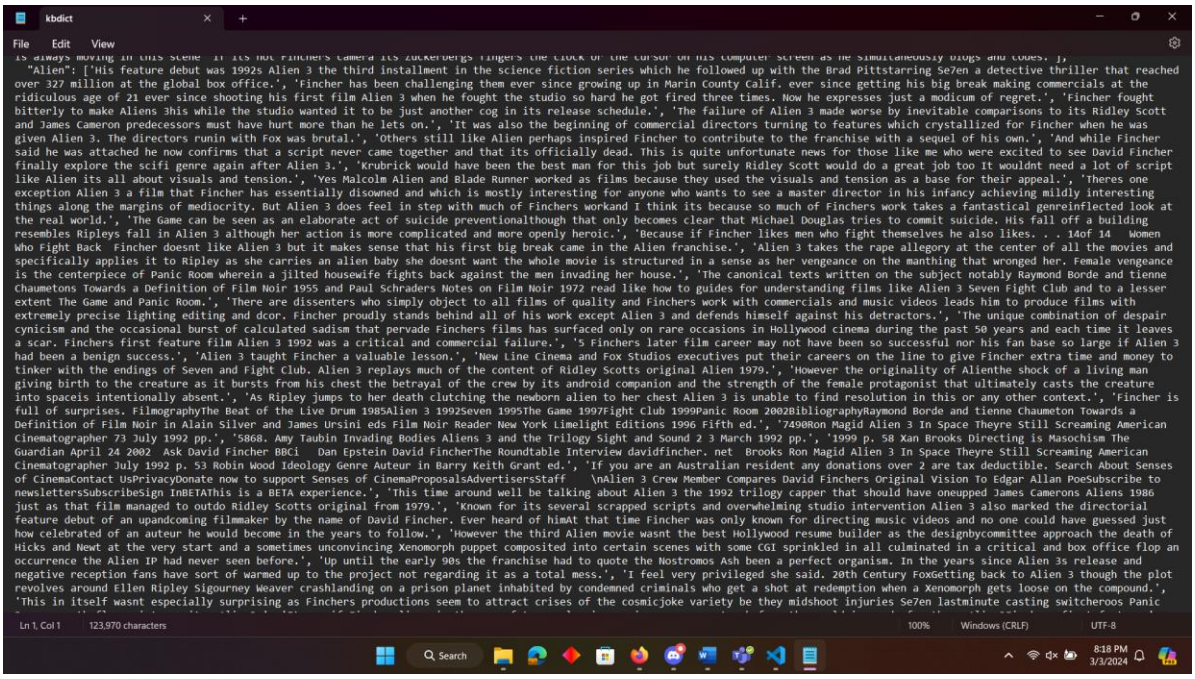
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"Alien": ['His feature debut was 1992s Alien 3 the third installment in the science fiction series which he followed up with the Brad Pittstarring Se7en a detective thriller that reached over 327 million at the global box office.', 'Fincher has been challenging them ever since growing up in Marin County Calif. ever since getting his big break making commercials at the ridiculous age of 21 ever since shooting his first film Alien 3 when he fought the studio so hard he got fired three times. Now he expresses just a modicum of regret.', 'Fincher fought bitterly to make Aliens 3his while the studio wanted it to be just another cog in its release schedule.', 'The failure of Alien 3 made worse by inevitable comparisons to its Ridley Scott and James Cameron predecessors must have hurt more than he lets on.', 'It was also the beginning of commercial directors turning to features which crystallized for Fincher when he was given Alien 3. The directors runin with Fox was brutal.', 'Others still like Alien perhaps inspired Fincher to contribute to the franchise with a sequel of his own.', 'And while Fincher said he was attached he now confirms that a script never came together and that its officially dead. This is quite unfortunate news for those like me who were excited to see David Fincher finally explore the scifi genre again after Alien 3.', 'Krubrick would have been the best man for this job but surely Ridley Scott would do a great job too It wouldnt need a lot of script like Alien its all about visuals and tension.', 'Yes Malcolm Alien and Blade Runner worked as films because they used the visuals and tension as a base for their appeal.', 'Theres one exception Alien 3 a film that Fincher has essentially disowned and which is mostly interesting for anyone who wants to see a master director in his infancy achieving mildly interesting things along the margins of mediocrity. But Alien 3 does feel in step with much of Finchers workand I think its because so much of Finchers work takes a fantastical genreinflected look at the real world.', 'The Game can be seen as an elaborate act of suicide preventionalthough that only becomes clear that Michael Douglas tries to commit suicide. His fall off a building resembles Ripleys fall in Alien 3 although her action is more complicated and more openly heroic.', 'Because if Fincher likes men who fight themselves he also likes. . . 14of 14 Women Who Fight Back Fincher doesnt like Alien 3 but it makes sense that his first big break came in the Alien franchise.', 'Alien 3 takes the rape allegory at the center of all the movies and specifically applies it to Ripley as she carries an alien baby she doesnt want the whole movie is structured in a sense as her vengeance on the manthing that wronged her. Female vengeance is the centerpiece of Panic Room wherein a jilted housewife fights back against the men invading her house.', 'The canonical texts written on the subject notably Raymond Borde and tienne Chaumetons Towards a Definition of Film Noir 1955 and Paul Schraders Notes on Film Noir 1972 read like how to guides for understanding films like Alien 3 Seven Fight Club and to a lesser extent The Game and Panic Room.', 'There are dissenters who simply object to all films of quality and Finchers work with commercials and music videos leads him to produce films with extremely precise lighting editing and dcor. Fincher proudly stands behind all of his work except Alien 3 and defends himself against his detractors.', 'The unique combination of despair cynicism and the occasional burst of calculated sadism that pervade Finchers films has surfaced only on rare occasions in Hollywood cinema during the past 50 years and each time it leaves a scar. Finchers first feature film Alien 3 1992 was a critical and commercial failure.', '5 Finchers later film career may not have been so successful nor his fan base so large if Alien 3 had been a benign success.', 'Alien 3 taught Fincher a valuable lesson.', 'New Line Cinema and Fox Studios executives put their careers on the line to give Fincher extra time and money to tinker with the endings of Seven and Fight Club. Alien 3 replays much of the content of Ridley Scotts original Alien 1979.', 'However the originality of Alienthe shock of a living man giving birth to the creature as it bursts from his chest the betrayal of the crew by its android companion and the strength of the female protagonist that ultimately casts the creature into spaceis intentionally absent.', 'As Ripley jumps to her death clutching the newborn alien to her chest Alien 3 is unable to find resolution in this or any other context.', 'Fincher is full of surprises. FilmographyThe Beat of the Live Drum 1985Alien 3 1992Seven 1995The Game 1997Fight Club 1999Panic Room 2002BibliographyRaymond Borde and tienne Chaumeton Towards a Definition of Film Noir in Alain Silver and James Ursini eds Film Noir Reader New York Limelight Editions 1996 Fifth ed.', '7490Ron Magid Alien 3 In Space Theyre Still Screaming American Cinematographer 73 July 1992 pp.', '5868. Amy Taubin Invading Bodies Aliens 3 and the Trilogy Sight and Sound 2 3 March 1992 pp.', '1999 p. 58 Xan Brooks Directing is Masochism The Guardian April 24 2002 Ask David Fincher BBCi Dan Epstein David FincherThe Roundtable Interview davidfincher. net Brooks Ron Magid Alien 3 In Space Theyre Still Screaming American Cinematographer July 1992 p. 53 Robin Wood Ideology Genre Auteur in Barry Keith Grant ed.', 'If you are an Australian resident any donations over 2 are tax deductible. Search About Senses of CinemaContact UsPrivacyDonate now to support Senses of CinemaProposalsAdvertisersStaff \nAlien 3 Crew Member Compares David Finchers Original Vision To Edgar Allan PoeSubscribe to newslettersSubscribeSign InBETAThis is a BETA experience.', 'This time around well be talking about Alien 3 the 1992 trilogy capper that should have oneupped James Camerons Aliens 1986 just as that film managed to outdo Ridley Scotts original from 1979.', 'Known for its several scrapped scripts and overwhelming studio intervention Alien 3 also marked the directorial feature debut of an upandcoming filmmaker by the name of David Fincher. Ever heard of himAt that time Fincher was only known for directing music videos and no one could have guessed just how celebrated of an auteur he would become in the years to follow.', 'However the third Alien movie wasnt the best Hollywood resume builder as the designbycommittee approach the death of Hicks and Newt at the very start and a sometimes unconvincing Xenomorph puppet composited into certain scenes with some CGI sprinkled in all culminated in a critical and box office flop an occurrence the Alien IP had never seen before.', 'Up until the early 90s the franchise had to quote the Nostromos Ash been a perfect organism. In the years since Alien 3s release and negative reception fans have sort of warmed up to the project not regarding it as a total mess.', 'I feel very privileged she said. 20th Century FoxGetting back to Alien 3 though the plot revolves around Ellen Ripley Sigourney Weaver crashlanding on a prison planet inhabited by condemned criminals who get a shot at redemption when a Xenomorph gets loose on the compound.', 'This in itself wasnt especially surprising as Finchers productions seem to attract crises of the cosmicjoke variety be they midshoot injuries Se7en lastminute casting switcheroos Panic
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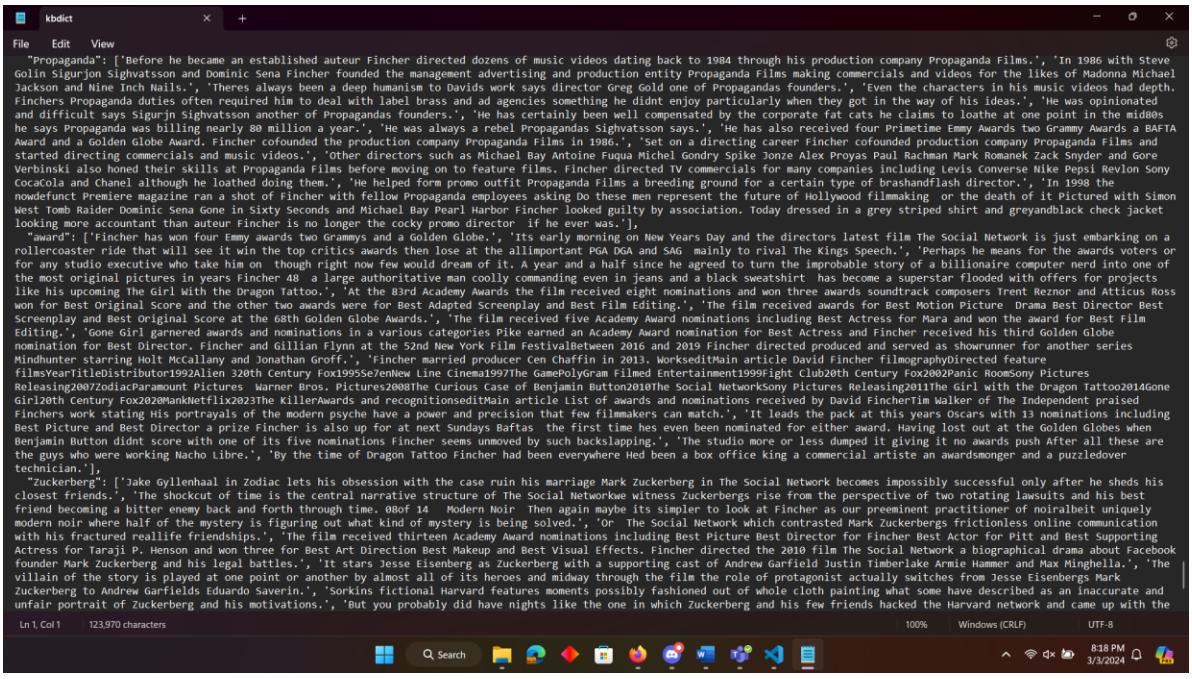
kbdict
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"Propaganda": ['Before he became an established auteur Fincher directed dozens of music videos dating back to 1984 through his production company Propaganda Films.', 'In 1986 with Steve Golin Sigurjon Sighvatsson and Dominic Sena Fincher founded the management advertising and production entity Propaganda Films making commercials and videos for the likes of Madonna Michael Jackson and Nine Inch Nails.', 'Theres always been a deep humanism to Davids work says director Greg Gold one of Propagandas founders.', "Even the characters in his music videos had depth. Finchers Propaganda duties often required him to deal with label brass and ad agencies something he didnt enjoy particularly when they got in the way of his ideas.', 'He was opinionated and difficult says Sigurjn Sighvatsson another of Propagandas founders.', 'He has certainly been well compensated by the corporate fat cats he claims to loathe at one point in the mid80s he says Propaganda was billing nearly 80 million a year.', 'He was always a rebel Propagandas Sighvatsson says.', 'He has also received four Primetime Emmy Awards two Grammy Awards a BAFTA Award and a Golden Globe Award. Fincher cofounded the production company Propaganda Films in 1986.', 'set on a directing career Fincher cofounded production company Propaganda Films and started directing commercials and music videos.', 'Other directors such as Michael Bay Antoine Fuqua Michel Gondry Spike Jonze Alex Proyas Paul Rachman Mark Romanek Zack Snyder and Gore Verbinski also honed their skills at Propaganda Films before moving on to feature films. Fincher directed TV commercials for many companies including Levis Converse Nike Pepsi Revlon Sony CocaCola and Chanel although he loathed doing them.', 'He helped form promo outfit Propaganda Films a breeding ground for a certain type of brashandflash director.', 'In 1998 the nowdefunct Premiere magazine ran a shot of Fincher with fellow Propaganda employees asking Do these men represent the future of Hollywood filmmaking or the death of it Pictured with Simon West Tomb Raider Dominic Sena Gone in Sixty Seconds and Michael Bay Pearl Harbor Fincher looked guilty by association. Today dressed in a grey striped shirt and greyandblack check jacket looking more accountant than auteur Fincher is no longer the cocky promo director if he ever was.'],
"award": ['Fincher has won four Emmy awards two Grammys and a Golden Globe.', 'Its early morning on New Years Day and the directors latest film The Social Network is just embarking on a rollercoaster ride that will see it win the top critics awards then lose at the allimportant PGA DGA and SAG mainly to rival The Kings Speech.', 'Perhaps he means for the awards voters or for any studio executive who take him on though right now few would dream of it. A year and a half since he agreed to turn the improbable story of a billionaire computer nerd into one of the most original pictures in years Fincher 48 a large authoritative man coolly commanding even in jeans and a black sweatshirt has become a superstar flooded with offers for projects like his upcoming The Girl With the Dragon Tattoo.', 'At the 83rd Academy Awards the film received eight nominations and won three awards soundtrack composers Trent Reznor and Atticus Ross won for Best Original Score and the other two awards were for Best Adapted Screenplay and Best Film Editing.', 'The film received awards for Best Motion Picture Drama Best Director Best Screenplay and Best Original Score at the 68th Golden Globe Awards.', 'The film received five Academy Award nominations including Best Actress for Mara and won the award for Best Film Editing.', 'Gone Girl garnered awards and nominations in a various categories Pike earned an Academy Award nomination for Best Actress and Fincher received his third Golden Globe nomination for Best Director. Fincher and Gillian Flynn at the 52nd New York Film FestivalBetween 2016 and 2019 Fincher directed produced and served as showrunner for another series Mindhunter starring Holt McCallany and Jonathan Groff.', 'Fincher married producer Cen Chaffin in 2013. WorkseditMain article David Fincher filmographyDirected feature filmsYearTitleDistributor1992Alien 320th Century Fox1995Se7enNew Line Cinema1997The GamePolyGram Filmed Entertainment1999Fight Club20th Century Fox2002Panic RoomSony Pictures Releasing2007ZodiacParamount Pictures Warner Bros. Pictures2008The Curious Case of Benjamin Button2010The Social NetworkSony Pictures Releasing2011The Girl with the Dragon Tattoo2014Gone Girl20th Century Fox2020MankNetflix2023The KillerAwards and recognitionseditMain article List of awards and nominations received by David FincherTim Walker of The Independent praised Finchers work stating His portrayals of the modern psyche have a power and precision that few filmmakers can match.', 'It leads the pack at this years Oscars with 13 nominations including Best Picture and Best Director a prize Fincher is also up for at next Sundays Baftas the first time hes even been nominated for either award. Having lost out at the Golden Globes when Benjamin Button didnt score with one of its five nominations Fincher seems unmoved by such backslapping.', 'The studio more or less dumped it giving it no awards push After all these are the guys who were working Nacho Libre.', 'By the time of Dragon Tattoo Fincher had been everywhere Hed been a box office king a commercial artiste an awardsmonger and a puzzledover technician.'],
"Zuckerberg": ['Jake Gyllenhaal in Zodiac lets his obsession with the case ruin his marriage Mark Zuckerberg in The Social Network becomes impossibly successful only after he sheds his closest friends.', 'The shockcut of time is the central narrative structure of The Social Networkwe witness Zuckerbergs rise from the perspective of two rotating lawsuits and his best friend becoming a bitter enemy back and forth through time. 08of 14 Modern Noir Then again maybe its simpler to look at Fincher as our preeminent practitioner of noiralbeit uniquely modern noir where half of the mystery is figuring out what kind of mystery is being solved.', 'Or The Social Network which contrasted Mark Zuckerbergs frictionless online communication with his fractured reallife friendships.', 'The film received thirteen Academy Award nominations including Best Picture Best Director for Fincher Best Actor for Pitt and Best Supporting Actress for Taraji P. Henson and won three for Best Art Direction Best Makeup and Best Visual Effects. Fincher directed the 2010 film The Social Network a biographical drama about Facebook founder Mark Zuckerberg and his legal battles.', 'It stars Jesse Eisenberg as Zuckerberg with a supporting cast of Andrew Garfield Justin Timberlake Armie Hammer and Max Minghella.', 'The villain of the story is played at one point or another by almost all of its heroes and midway through the film the role of protagonist actually switches from Jesse Eisenbergs Mark Zuckerberg to Andrew Garfields Eduardo Saverin.', 'Sorkins fictional Harvard features moments possibly fashioned out of whole cloth painting what some have described as an inaccurate and unfair portrait of Zuckerberg and his motivations.', 'But you probably did have nights like the one in which Zuckerberg and his few friends hacked the Harvard network and came up with the
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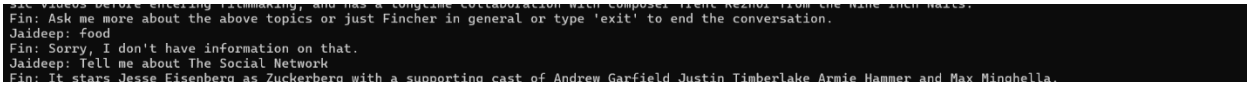
Part 2: Chatbot:

System Description:

The chatbot takes the data from the pickled knowledge base. The chatbot prompts for the user's name and asks them whether they like Fincher or know about him. Then, they are asked if they know any movies by Fincher. This starts the conversation before giving some general topics that they can learn about Fincher. More on the dialog flow is covered in the next section.

Based on the user input, the chatbot runs a similarity search that fetches the most relevant answer to the input. The users' data is stored in a pickled file, which stores their name, preference on Fincher, and their favorite Fincher movie name. This enables the chatbot to remember user information so when a user returns to the chatbot, it doesn't need to ask them about their thoughts on Fincher again and can go straight to the answering for questions. If the chatbot cannot find a relevant response to the query, it responds with a generic sentence saying it doesn't have any information on that topic.

An example is shown below.



NLP techniques used in the chatbot:

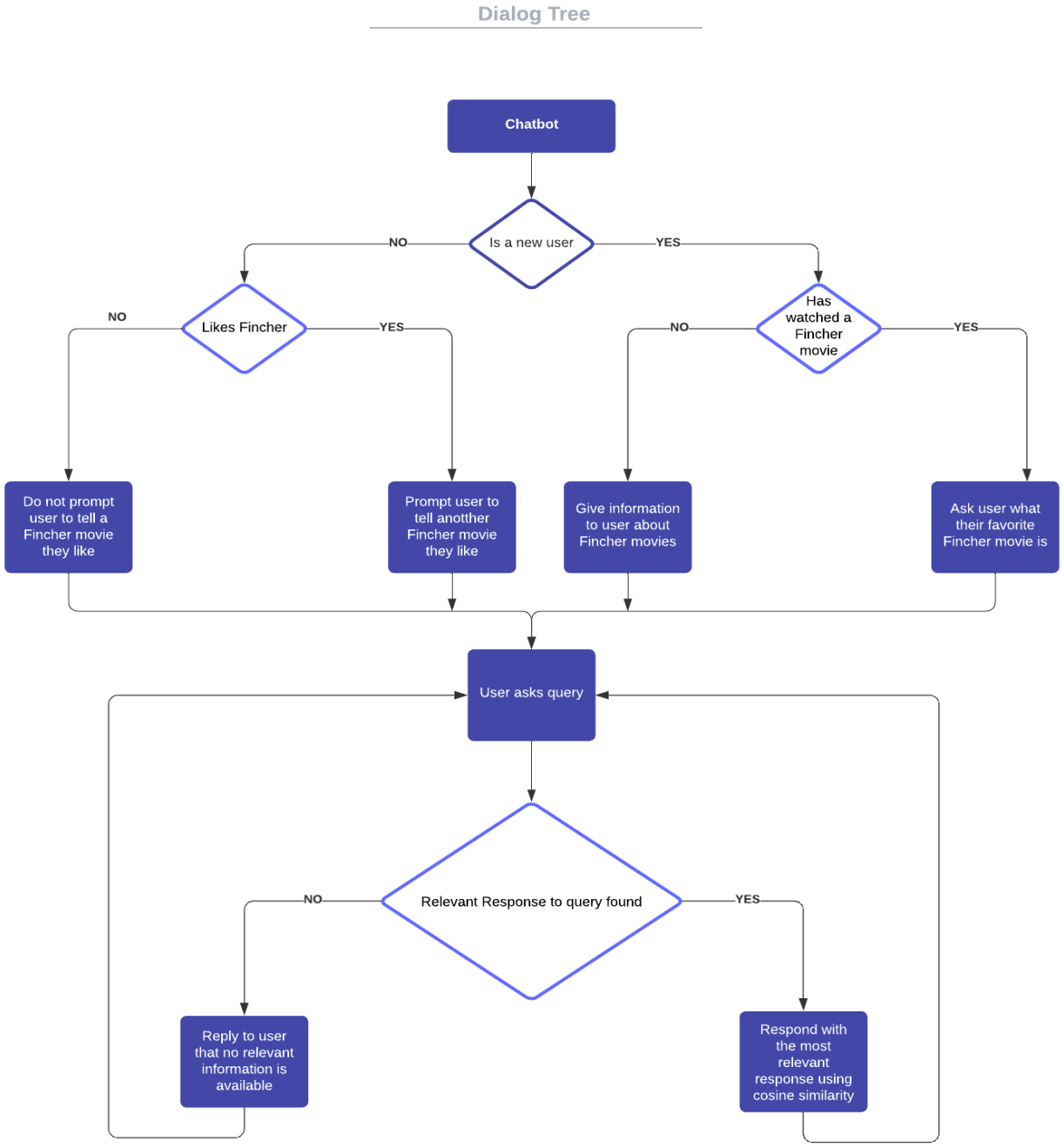
- Tokenization and lemmatization: The user input is processed by spaCy's NLP pipeline to extract tokens and lemmatize words. This helps in matching the user's input to predefined sentences.
- NER: Named Entity Recognition is used to extract named entities like person, organization names from the user input. This provides more context to match the user input.
- Cosine Similarity: Cosine Similarity is used to find the best matching sentence in the knowledge base to the user input. This has been important in retrieving sentences despite the term not appearing in the sentence. For example, mentioning Facebook would give responses related to 'The Social Network', a movie based on the founding of Facebook.

Chatbot Logic:

The chatbot checks whether the user is new or returning based on their name.

- If it's a new user who does not like Fincher or does not know about him, they are asked if they watched any Fincher films. If they did, their favorite film of his is asked. If not, the user is given the names of some Fincher films.
- If the user is new and they like Fincher, their favorite movie of his is asked and the information is stored before the conversation proceeds.
- If the user is returning and likes Fincher, the chatbot remembers them and remarks that the user likes a movie which they previously mentioned that they liked.

- If returning and does not like Fincher or does not know about him, the chatbot remembers them and they are just simply asked to ask any questions to learn about Fincher.

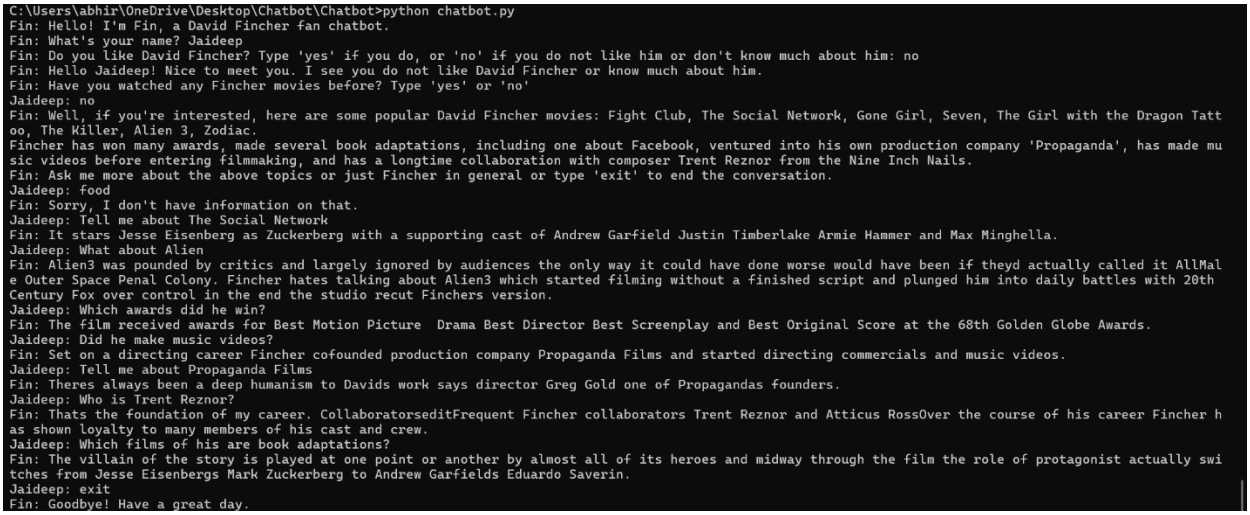


The dialog continues until the user enters ‘exit’.

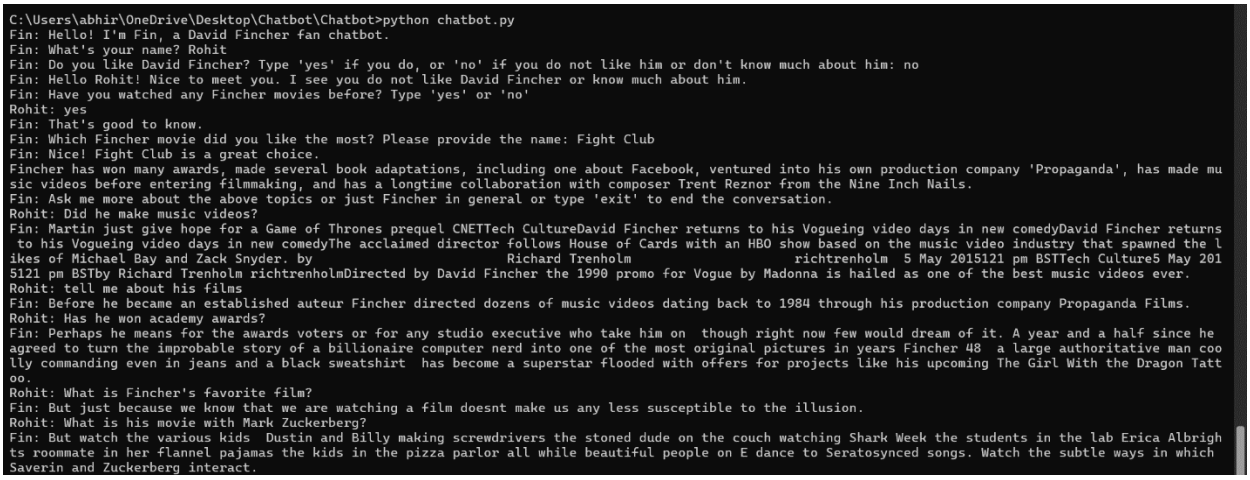
Examples of the above cases can be seen in the sample dialog interactions.

Sample Dialog Interactions:

The below two interactions are for new users.



```
C:\Users\abhir\OneDrive\Desktop\Chatbot\Chatbot>python chatbot.py
Fin: Hello! I'm Fin, a David Fincher fan chatbot.
Fin: What's your name? Jaideep
Fin: Do you like David Fincher? Type 'yes' if you do, or 'no' if you do not like him or don't know much about him: no
Fin: Hello Jaideep! Nice to meet you. I see you do not like David Fincher or know much about him.
Fin: Have you watched any Fincher movies before? Type 'yes' or 'no'
Jaideep: no
Fin: Well, if you're interested, here are some popular David Fincher movies: Fight Club, The Social Network, Gone Girl, Seven, The Girl with the Dragon Tatt
oo, The Killer, Alien 3, Zodiac.
Fincher has won many awards, made several book adaptations, including one about Facebook, ventured into his own production company 'Propaganda', has made mu
sic videos before entering filmmaking, and has a longtime collaboration with composer Trent Reznor from the Nine Inch Nails.
Fin: Ask me more about the above topics or just Fincher in general or type 'exit' to end the conversation.
Jaideep: food
Fin: Sorry, I don't have information on that.
Jaideep: Tell me about The Social Network
Fin: It stars Jesse Eisenberg as Zuckerberg with a supporting cast of Andrew Garfield Justin Timberlake Armie Hammer and Max Minghella.
Jaideep: What about Alien
Fin: Alien3 was pounded by critics and largely ignored by audiences the only way it could have done worse would have been if theyd actually called it AllMal
e Outer Space Penal Colony. Fincher hates talking about Alien3 which started filming without a finished script and plunged him into daily battles with 20th
Century Fox over control in the end the studio recut Finchers version.
Jaideep: Which awards did he win?
Fin: The film received awards for Best Motion Picture  Drama Best Director Best Screenplay and Best Original Score at the 68th Golden Globe Awards.
Jaideep: Did he make music videos?
Fin: Set on a directing career Fincher cofounded production company Propaganda Films and started directing commercials and music videos.
Jaideep: Tell me about Propaganda Films
Fin: Theres always been a deep humanism to Davids work says director Greg Gold one of Propagandas founders.
Jaideep: Who is Trent Reznor?
Fin: Thats the foundation of my career. CollaboratorseditFrequent Fincher collaborators Trent Reznor and Atticus RossOver the course of his career Fincher h
as shown loyalty to many members of his cast and crew.
Jaideep: Which films of his are book adaptations?
Fin: The villain of the story is played at one point or another by almost all of its heroes and midway through the film the role of protagonist actually swi
tches from Jesse Eisenbergs Mark Zuckerberg to Andrew Garfields Eduardo Saverin.
Jaideep: exit
Fin: Goodbye! Have a great day.
```



```
C:\Users\abhir\OneDrive\Desktop\Chatbot\Chatbot>python chatbot.py
Fin: Hello! I'm Fin, a David Fincher fan chatbot.
Fin: What's your name? Rohit
Fin: Do you like David Fincher? Type 'yes' if you do, or 'no' if you do not like him or don't know much about him: no
Fin: Hello Rohit! Nice to meet you. I see you do not like David Fincher or know much about him.
Fin: Have you watched any Fincher movies before? Type 'yes' or 'no'
Rohit: yes
Fin: That's good to know.
Fin: Which Fincher movie did you like the most? Please provide the name: Fight Club
Fin: Nice! Fight Club is a great choice.
Fincher has won many awards, made several book adaptations, including one about Facebook, ventured into his own production company 'Propaganda', has made mu
sic videos before entering filmmaking, and has a longtime collaboration with composer Trent Reznor from the Nine Inch Nails.
Fin: Ask me more about the above topics or just Fincher in general or type 'exit' to end the conversation.
Rohit: Did he make music videos?
Fin: Martin just give hope for a Game of Thrones prequel CNETTech CultureDavid Fincher returns to his Vogueing video days in new comedyDavid Fincher returns
 to his Vogueing video days in new comedyThe acclaimed director follows House of Cards with an HBO show based on the music video industry that spawned the l
ikes of Michael Bay and Zack Snyder. by                         Richard Trenholm                    richtrenholm  5 May 2015121 pm BSTTech Culture5 May 201
5121 pm BSTby Richard Trenholm richtrenholmDirected by David Fincher the 1990 promo for Vogue by Madonna is hailed as one of the best music videos ever.
Rohit: tell me about his films
Fin: Before he became an established auteur Fincher directed dozens of music videos dating back to 1984 through his production company Propaganda Films.
Rohit: Has he won academy awards?
Fin: Perhaps he means for the awards voters or for any studio executive who take him on  though right now few would dream of it. A year and a half since he
agreed to turn the improbable story of a billionaire computer nerd into one of the most original pictures in years Fincher 48  a large authoritative man coo
lly commanding even in jeans and a black sweatshirt  has become a superstar flooded with offers for projects like his upcoming The Girl With the Dragon Tatt
oo.
Rohit: What is Fincher's favorite film?
Fin: But just because we know that we are watching a film doesnt make us any less susceptible to the illusion.
Rohit: What is his movie with Mark Zuckerberg?
Fin: But watch the various kids  Dustin and Billy making screwdrivers the stoned dude on the couch watching Shark Week the students in the lab Erica Albrigh
ts roommate in her flannel pajamas the kids in the pizza parlor all while beautiful people on E dance to Seratosynced songs. Watch the subtle ways in which
Saverin and Zuckerberg interact.
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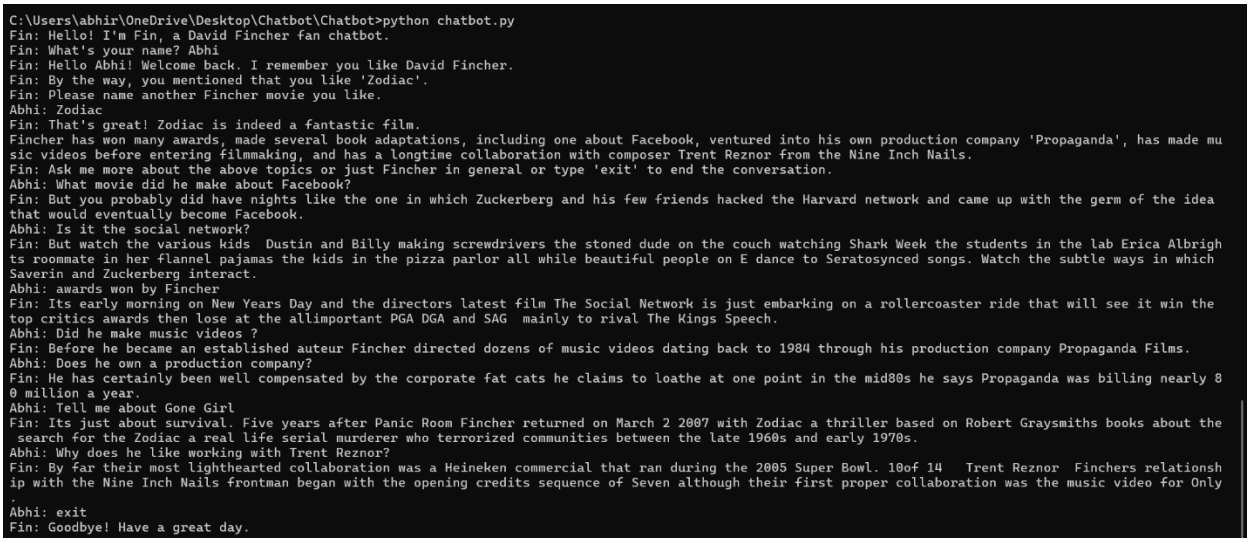
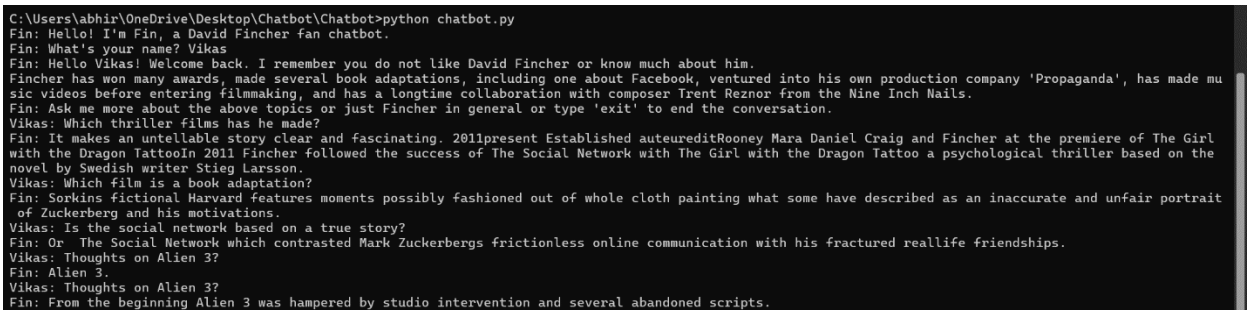
Then for returning users:



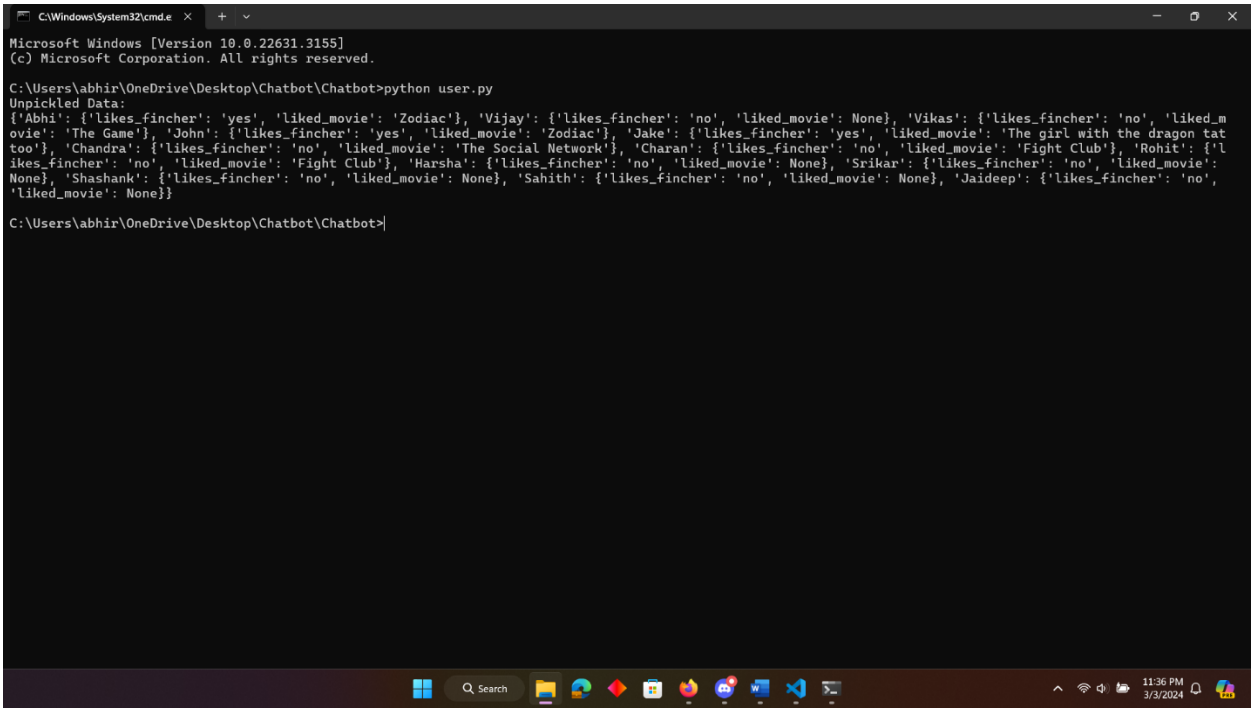


Appendix for knowledge base:

I have not modified the knowledge base created in part 1 as there are way too many lines to even consider changing anything. It uses the same screenshots present there so I am avoiding putting them here again.

Appendix for sample user models:

The sample user models are pickled in the file **‘user1_data.pkl’**. A readable version of the users can be seen below. It documents their names, their preference towards Fincher, and if they’ve liked any of his movies, it is saved here.



My evaluation of the chatbot:

I think the chatbot does well in identifying the relationship between words that are similar. When I mention an actor, it links them to the movie which they acted in most of the time. For example, when I mention Daniel Craig, it sometimes does fetch sentences related to The Girl with the Dragon Tattoo, a movie which he starred in. It does a good job in remembering users and their preferences. In most cases, it does identify names and organizations that appear a lot of times, like Fincher's own production company 'Propaganda', and award names like 'BAFTA' and 'The Oscars'.

A drawback is that sometimes it would fetch a sentence despite not having much relevance to the question asked. I have tried my best in fine tuning this aspect, but it is to be expected from an NLP based chatbot.