

Assignment 8 – Movie Poster

Members: Kaushik Jayaprakash, Harsh Shah, Deshna Ashok Shah, Yash Darekar

Subject: Data Science Engineering and Methods

Date: 8th October 2024

Group Name: The Objective Unit

TITLE – Only Murders in the Building

Adapted Storyline

An unknown crime occurs at Northeastern University where a student is found dead on the premises of the university and the cause of the incident is unknown. All the students and teachers are shocked by this incident and the police are in search of the perpetrator. Many weeks pass by, and the police are not able to find the perpetrator.

Meanwhile, a group of friends namely Kaushik, Harsh, Deshna and Yash decide that they need to find the cause of the death as all these friends have collective interest in true crime stories and podcasts.

Main Characters Introduction

Kaushik is enigmatic individual with interests in coding and computers and can be a bookworm at times.

Harsh is the intelligent individual with interests in biology and crime podcasts and is the person you want to have during exams.

Deshna has an energetic personality and is often seen with a comic book in hand suggesting an interest in storytelling and proves invaluable to the team's investigations.

Yash is the bold and adventurous member of the mystery solving team and is the first to volunteer for venturing into unknown or potentially risky situations.

Premise of the story

The premise of the story revolves around how a silent and mindful individual (Dan) end up dead and what could be the perpetrator's motivation in doing such an act. The Main characters take up the case to investigate in their free time. Each character has a backstory which also plays an important role during the investigation. The main characters learn get to know more about their classmates in deeper thought during the investigation and how their role might have affected the scenario.

They also take help from their professor Dino Konstantopoulos with respect to the investigation as he is a wizard in the field of data science, the characters ask their teacher to build a Data science model which shows the possible suspects and the people who might have been involved during the time of death.

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Poster Pictures



Deep Dive – Main Story

It is a pleasant afternoon at Northeastern University and our main characters are attending classes at the university, at the same time all students receive an email saying that one of students (Dan) has gone missing from the previous day. The characters recognize the person as he was a classmate in one of the classes that our main characters attend. They were not very alarmed by the mail as they assumed that he would be found by the Boston Police Department. As the night rolled by and the sun rose, they received unexpected news from the other members of the college that Dan is presumed to be dead. Engulfed in thought their suspicion came true as the college announced the death of Dan in the College group. Everyone was stunned to hear this news and after a few days the air around university calmed down, however our main characters were not able to get over the fact that one of their classmates had died of mysterious circumstances.

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The official police notice is released saying that the cause of the incident is unknown, and search of the perpetrator is still going on. Our main characters whose interest is in crime stories and podcasts decide to take up the case in their own free time.

The search to find the killer began with getting all the information that the police have collected and working on parts they might have missed during the investigation. Yash's father works in the police department and the friends decided to meet Yash's father on a weekend and the plan was set. After talking with Yash's father, they got to know that Dan's was found dead at Data science laboratory and the possible suspects were all the teachers and students who last attended the class. After interviewing all the individuals, the police didn't find any circumstantial evidence to doubt somebody from the group.

Our main characters decide to talk to the students who has last seen or contacted Dan before he died, they talked Alice who was an ex-girlfriend of Dan's and was a close friend of Deshna, while talking to Deshna, Alice said that she liked Dan as he was attractive and *recently* landed a prestigious Data science internship at one of the FANG companies. Alice also told that Dan wasn't paying attention to Alice as Dan found Samantha to be more attractive and Alice didn't like this one bit, Deshna told all of this to her friends, and they considered Alice as a possible suspect. Meanwhile, Deshna also talked to Samantha and didn't get any information to suspect her.

With their investigation almost coming to a roadblock, Kaushik and Harsh decide to meet Professor Dino and ask him help in building a Data science model which determines that which person among the suspects has highest given probability of killing Dan based on the information given by the police and the personal investigation done by our main characters. **Professor Dino agrees to help them, so he starts building a dataset using pandas and starts to plot the probability of Dino's killer using matplotlib and for faster execution uses Numpy.** At the same time the college bell rang and professor dino told we'll continue this experiment tomorrow and left the class.

All our main characters return excited to the college to find out of who might have been the perpetrator, they come to find out that Alice had the highest probability of killing Dan because she was feeling jealous for being left out. Somewhat dejected, our characters finish classes and meet at their usual meeting spot and thought of reporting all their findings to the police and let them act further on. Deshna tells the other members that she has known Alice for a long time, and she doesn't have the courage or malice to harm anyone.

Meanwhile, Yash learns about a shocking revelation with respect to the investigation and while Kaushik and Harsh are going through the code they find some data errors which should have not been implemented, **WHAT HAPPENED NEXT....???**

To be continued as part 2 of next Assignment.....!!!!

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Cast



Kaushik Jayaprakash



Harsh Shah



Deshna Ashok Shah



Yash Darekar