

KnowMap_Meeting Invite_Sess... Infosys_JobCheck Detecting...

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AP ASWINI P (U... A Ajay (Unverf... SK S Kartheek JM Jahnani Laks... VU Varshitha B U... DG Divyansh Gh... PM Poobeshraj M

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Outline Slides

1. Milestone 3: Knowledge Graph Visualization & Semantic Search

2. Recap

- Milestone 1 - We addressed prior AI-related questions
- Milestone 2 - We Entity & Relation detection (Phrases)
- Milestone 3 - We built interactive path + semantic search

3. What is a Knowledge Graph?

- Definition: A graph where:
- Nodes = entities (Einstein, Relativity)
- Edges = relations (discovered, influenced)
- Example Triple: (Einstein — discovered — Theory of Relativity)
- Importance: Helps visualize and explore connections across domains

4. Visualization

- Nodes: entities, types
- Edges: relations
- Graph: network of nodes and edges
- Query: ask questions about the graph

Click to add notes

Ajay (Unverified)

Meeting chat

Isha Sudarshini 8:07 pm

CHILLAKURU KANAKSHI ISWARYA 8:07 pm

JANAKIRAMAN S 8:07 pm

8:07 pm

Varshitha B U 8:08 pm

Shivam Kanse 8:09 pm

ASWINI P 8:09 pm

sai tejaswi 8:10 pm

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Outline Slides

1. Milestone 3 Knowledge Graph Visualization & Semantic Search
2. Recap
 - Milestone 1 - Authentication & Dataset Ingestion
 - Milestone 2 - Entity & Relation Extraction (Phrases)
 - Milestone 3 - Build interactive graph & semantic search
3. What is a Knowledge Graph?
 - Definition & graph where:
 - Nodes = entities (Persons, Products)
 - Edges = relationships (discovered, unknown)
 - Example: Priya is a friend of Anand => (Priya is a friend of) (Anand)
 - Inference: Priya visited and married Anand => (Priya visited) (Anand)
4. Visualization
 - Tools: networkx + pyvis
 - Features:
 - Zoom in/out
 - Drag nodes
 - Click to explore relations
 - Output: An interactive graph in browser/Streamlit

Click to add notes

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Meeting chat

Ishta Sudarshini 8:07 pm

Ishta Sudarshini

CHILLAKURU KANAKSHI ISWARYA 8:07 pm

Chillakuru Kanakshi Iswarya

JANAKIRAMAN S 8:07 pm

Janakiraman S

8:07 pm

Poobeshraj M

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Outline Slides

Deliverables

- By end of Milestone 3, students should have:
- ✓ Knowledge Graph from dataset (50+ triples)
- ✓ Interactive visualization (PyVis)
- ✓ Semantic search bar (Sentence Transformers)
- ✓ Graph highlighting based on query

Meeting chat

Isha Sudarshini 8:07 pm

CHILLAKURU KANAKSHI ISWARYA 8:07 pm

JANAKIRAMAN S 8:07 pm

8:07 pm

Varshitha B U 8:08 pm

Shivam Kanse 8:09 pm

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Outline Slides

1 Milestone 2: NLP Pipeline - Entity & Relation Extraction

2 Definition

- Milestone 2 focuses on extracting:
- Entities – important objects like people, places, concepts
- Relations – how entities are connected
- Output: Triples (Entity1 — Relation — Entity2)

3 Importance

- Helps in knowledge discovery
- Helps in understanding the structure of data
- Helps in identifying patterns and trends
- Helps in understanding the relationships between entities

4 Steps in Milestone 2

- 1. Data Collection and Preprocessing
- 2. Feature Extraction and Representation
- 3. Model Training and Evaluation
- 4. Deployment and Monitoring

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Press Ctrl+Shift+M to unmute your mic, or press and hold the Ctrl+Spacebar.

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Outline Slides

1 Milestone 2: NLP Pipeline - Entity & Relation Extraction
Extracting entities and relationships from text documents

2 Definition
• Definition: A process for extracting
• Entities: Named entities (names, places, dates, numbers)
• Relations: Relationships between entities (e.g., "John is a doctor")

3 Importance
• Why this step is important:
• Triples are the foundation of the knowledge graph
• Automates discovery of connections
• Enables cross-domain insights
• Used in Google Knowledge Graph, chatbots, QA systems

4 Steps in Milestone 2
• 1. Preprocess text: clean and normalize input
• 2. Extract entities: identify named entities (NER)
• 3. Extract relations: identify connections between entities (RE)
• 4. Store as triples: save extracted information

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The screenshot shows a Microsoft Teams meeting in progress. The meeting title is "Milestone 2 Model Training". The participants listed at the top are ST, IV, KM, SK, A (Ajay), PA, and PM. The main content area displays a presentation slide titled "Steps in Milestone 2" with the following content:

- 1. Preprocess Text – clean and normalize input
- 2. Named Entity Recognition (NER) – find entities (spaCy/Transformers)
- 3. Relation Extraction – detect connections (verbs/reactions)
- 4. Store as Triples – save in CSV/JSON/Graph

The right sidebar shows a "Meeting chat" with several messages from participants. The bottom status bar shows the system clock as 18:09 on 18-09-2025.

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Outline Slides

3 Importance

- Why this step is important?
- What are the foundations of the knowledge graph?
- Automatic discovery of connections
- Enabling contextual insights
- What is Graph knowledge (Graph, clusters, sub-graphs)

4 Steps in Milestone 2

- 2. Preparedness: Data clean and normalized
- 2. Normalized data integration (APIs, flat, spreadsheets, transformed)
- 3. Relation extraction: Detect connections (Graph knowledge)
- 4. Store as triples: Save in your knowledge graph

5 Example

- Check: The data source processed the Theory of Evolution?
- How: The role of AI in AI/ML, Theory of Evolution, AI/ML, AI/ML
- How: AI/ML in AI/ML, Theory of Evolution, AI/ML, AI/ML
- How: AI/ML in AI/ML, Theory of Evolution, AI/ML, AI/ML
- How: AI/ML in AI/ML, Theory of Evolution, AI/ML, AI/ML

6 Deliverables

- Build a end-to-end knowledge graph
- A working NER pipeline
- A relation extraction module
- A few hundred triples from their dataset

Deliverables

- By the end of Milestone 2, students should have:
- A working NER pipeline
- A relation extraction module
- Output stored as triples
- A few hundred triples from their dataset

Meeting chat

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Outline Slides

3 Sources of Datasets

4 Recommended Plan for Students

5 Final Note

Recommended Plan for Students

- Start with 10–20 Wikipedia articles (scientists, theories, historical events)
- Each group extracts ~200 sentences
- Run NER + Relation Extraction to get ~100–200 triples
- Optionally enrich with Kaggle News dataset for variety

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Ajay (Unverified) x

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Divyansh Ghildyal

Varshitha B U 8:11 pm

Varshitha B U

G.Pooja Chamundi 8:11 pm

G.Pooja Chamundi

Isha Sudarshini 8:11 pm

Isha Sudarshini

8:12 pm

Poobeshraj M

sai tejaswi 8:12 pm

K SarTejaswi

S Kartheek 8:12 pm

S.A.G.Kartheek

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Requirements for Dataset

- Text-rich – sentences, not just keywords
- Entity-rich – mentions of people, places, concepts, organizations
- Relation-rich – contains connections (who did what, where, when)
- Cross-domain – cover 2–3 domains (science, history, literature)
- Open-source – free and easy to download

Outline Slides

- 1 Dataset for Milestone 2 & 3
- 2 Requirements for Dataset
 - Text-rich – sentences, not just keywords
 - Entity-rich – mentions of people, places, concepts, organizations
 - Relation-rich – contains connections (who did what, where, when)
 - Cross-domain – cover 2–3 domains (science, history, literature)
 - Open-source – free and easy to download
- 3 Sources of Datasets
 - 1. Wikipedia – Detailed – Text and images and structured tables
 - 2. Kaggle – ML datasets (Kaggle articles, books, etc.)
 - 3. News articles – BBC, CNN, Reuters, NDTV, Hindustan Times, etc.
 - 4. Adding more datasets – Yahoo! Finance, IMDb, Spotify, etc.
 - 5. Domain specific – Published datasets (e.g., Stanford NLP)
- 4 Recommended Plan for Students
 - Start with 10–20 high-quality articles (science, history, literature)
 - Add more articles (dataset expansion)
 - Add more domain specific data (e.g., 100–200 articles)
 - Add more domain specific data (e.g., 100–200 articles)

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Shivam Kanse 8:09 pm

Shivam Kanse

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Divyansh Ghildyal 8:11 pm

Divyansh Ghildyal

Poobeshraj M

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Participants: IV, VU, JM, DG, ST, **Ajay (Unverified)**, PM

Meeting Chat:

- Divyansh Ghildyal
- Varshitha B U
- G.Pooja Chamundi
- Isha Sudarshini
- Poobeshraj M
- sai tejaswi
- K SarTejaswi
- S Kartheek
- S.A.G.Kartheek
- CHILLAKURU KAMAKSHI ISWARYA (Unverified) has temporarily joined the chat.

Slide Content:

Final Note

- Students should collect datasets that are:
- Rich in facts and relationships
- Easy to download and process
- Best starting point: Wikipedia / DBpedia + Kaggle datasets

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