```
# Define some sentences to feed into the model
sentences = [
  "Rose was driving the car.",
  "Rose was driving the automobile.",
  "Rose didn't choose the cap.",
  "Rose didn't choose the hat.",
  "Look, the roses are beautiful!",
  "Bob slept for a long time.",
  "Bob has gone home.",
  "Bob has been away for two days!",
  "Bob has been away for three days!",
  "Beethoven was a composer.",
  "Beethoven was a great musician.",
  "A solar eclipse occurs when the Moon passes between Earth and the
Sun, thereby totally or partly obscuring the image of the Sun for a
viewer on Earth.",
  "A partial solar eclipse occurs in the polar regions of the Earth
when the center of the Moon's shadow misses the Earth.",
  "Semantic Communications for Speech Recognition.",
  "Semantic Communications for Speech Transmission.",
  "Semantic Communication for Image Transmission.",
  "RT-PCR Test Results in Patients Recovered From COVID-19.",
  "Third Dose of BNT162b2 Vaccine and SARS-CoV-2 Infection in Health
Care Workers.",
  "Multisystem Inflammatory Syndrome in Children by COVID-19
Vaccination Status of Adolescents in France.",
  "Odds of Testing Positive for SARS-CoV-2 Following Receipt of 3 vs
2 Doses of the BNT162b2 Vaccine.",
  "Particle swarm optimization algorithm is a population intelligence
algorithm.",
  "Artificial bee colony algorithm is a population intelligence
algorithm.",
  "Artificial fish swarm algorithm is a population intelligence
algorithm.",
  "Wolf colony algorithm is a population intelligence algorithm.",
  "Ant colony algorithm is a population intelligence algorithm.",
  "Loin swarm optimization algorithm is a population intelligence
algorithm.",
  "I'm happy to meet you.",
  "Nice to meet you.",
  "Glad to meet you.",
  "Cucumber is a kind of vegetable.",
  "Cabbage is a kind of vegetable.",
  "Tomato is a kind of vegetable.",
```

"Nine challenges in artificial intelligence and wireless communications for 6G.",
"Towards a theory of semantic communication.",
"The semantic communication game.",
"A lite distributed semantic communication system for Internet of Things.",
"Deep joint source-channel coding for wireless image transmission.",
"Deep learning for joint source-channel coding of text.",
"Distributed Image Transmission using Deep Joint Source-Channel Coding.",
"Deep Joint Source-Channel Coding for Multi-Task Network.",
"General Theory of Music by Icosahedron 2: Analysis of musical pieces by the exceptional musical icosahedra.",
"Music Embedding: A Tool for Incorporating Music Theory into Computational Music Applications.",
"Axiomatic Music Theory.",
"Music of the Spheres: Teaching Quantum Field Theory at the Introductory Level.",
"Sketching for low-rank nonnegative matrix approximation: a numerical study.",
"Sketch-based 3D Shape Modeling from Sparse Point Clouds.",
"Sketching Matrix Least Squares via Leverage Scores Estimates.",
"Sketch2PQ: Freeform Planar Quadrilateral Mesh Design via a Single Sketch.",
"Zero-Shot Sketch Based Image Retrieval using Graph Transformer.",
"Systematic Clinical Evaluation of A Deep Learning Method for Medical Image Segmentation: Radiosurgery Application.",
"Efficient and Generic Interactive Segmentation Framework to Correct Mispredictions during Clinical Evaluation of Medical Images.",
"A Method for Medical Data Analysis Using the LogNNet for Clinical Decision Support Systems and Edge Computing in Healthcare.",
"MedGPT: Medical Concept Prediction from Clinical Narratives."
"Model-based Pre-clinical Trials for Medical Devices Using Statistical Model Checking.",
"Recent advances and clinical applications of deep learning in medical image analysis.",
"Wireless Energy Transfer in RIS-Aided Cell-Free Massive MIMO Systems: Opportunities and Challenges.",
"Copula-Based Modeling of RIS-Assisted Communications: Outage Probability Analysis.",
"Beamforming and Power Allocation for Double-RIS-aided Two-way Directional Modulation Network.",

"RIS-Aware Indoor Network Planning: The Rennes Railway Station Case.",
"RIS-Assisted Communication Radar Coexistence: Joint Beamforming Design and Analysis.",
"Modeling Environmental Crime in Protected Areas Using the Level Set Method.",
"Protecting coherence by environmental decoherence: A solvable paradigmatic model.",
"Protecting a quantum state from environmental noise by an incompatible finite-time measurement.",
"Environmental Impacts of Personal Protective Clothing Used to Combat COVID-19.",
"Advanced protection against environmental degradation of silver mirror stacks for space application.",
"Ask me anything: Free-form visual question answering based on knowledge from external sources.",
"Semantic parsing via staged query graph generation: Question answering with knowledge base.",
"Reasoning with neural tensor networks for knowledge base completion.",
"Learning symmetric collaborative dialogue agents with dynamic knowledge graph embeddings.",
"DKN: Deep knowledge-aware network for news recommendation.",
"Multi-task feature learning for knowledge graph enhanced recommendation.",
"KGRL: An OWL2 RL reasoning system for large scale knowledge graph.",
"DGL-KE: Training knowledge graph embeddings at scale.",
"Distributed knowledge-base: Adaptive multi-agents approach.",
"FTRLIM: Distributed instance matching framework for large-scale knowledge graph fusion.",
"Assessment of the effectiveness of Omicron transmission mitigation strategies for European universities using an agent-based network model.",
"Modelling Agent-Skipping Attacks in Message Forwarding Protocols.",
"Effect of intervention policies in an agent based spatial epidemic model of Gwalior.",
"Language Models as Zero-Shot Planners: Extracting Actionable Knowledge for Embodied Agents.",
"StableSims: Optimizing MakerDAO Liquidations 2.0 Incentives via Agent-Based Modeling.",
"Opinion dynamics involving contrarian and independence behaviors based on the Sznajd model with two-two and three-one agent

interactions.",
"Modelling Cournot Games as Multi-agent Multi-armed Bandits.",
"Product Form of Projection-Based Model Reduction and its Application to Multi-Agent Systems.",
"DeepHAM: A Global Solution Method for Heterogeneous Agent Models with Aggregate Shocks.",
"Activity-based and agent-based Transport model of Melbourne (AToM): an open multi-modal transport simulation model for Greater Melbourne.",
"Semantic soft segmentation.",
"Designing effective inter-pixel information flow for natural image matting.",
"Disentangled image matting.",
"Rethinking atrous convolution for semantic image segmentation.",
"Encoder-decoder with atrous separable convolution for semantic image segmentation.",
"Knn matting.",
"A bayesian approach to digital matting.",
"Shared sampling for real-time alpha matting.",
"Near-real-time image matting with known background.",
"Reinforcement learning to minimize age of information with an energy harvesting sensor with harq and sensing cost.",
"An adaptive system for optimal solar energy harvesting in wireless sensor network nodes.",
"Remote area wind energy harvesting for low-power autonomous sensors.",
"Piezoelectric energy harvesting devices: An alternative energy source for wireless sensors.",
"Age of information under energy replenishment constraints.",
"Lazy is timely: Status updates by an energy harvesting source.",
"Scheduling status updates to minimize age of information with an energy harvesting sensor.",
"Age minimization in energy harvesting communications: Energy-controlled delays."
"Optimal status update for age of information minimization with an energy harvesting source.",
"Achieving the age-energy tradeoff with a finite-battery energy harvesting source.",
"Age of information minimization for an energy harvesting source with updating erasures: With and without feedback.",
"Age-minimal online policies for energy harvesting sensors with incremental battery recharges.",
"Discrete cosine transform.",
"Using fast weights to attend to the recent past.",

```
  "Learning in compressed space.",
  "Parameter-based value functions.",
  "Compressed network complexity search.",
  "Evolving modular fast-weight networks for control.",
  "Policy evaluation networks.",
  "Long short-term memory.",
  "Learning to learn using gradient descent.",
  "The human knowledge compression contest.",
  "On the Role of Multi-Objective Optimization to the Transit Network
Design Problem.",
  "A Memetic Procedure for Global Multi-Objective Optimization.",
  "Geo-indistinguishable Mechanisms for Spatial Crowdsourcing via
Multi-Objective Evolutionary Optimization.",
  "IMO3: Interactive Multi-Objective Off-Policy Optimization.",
  "Variational Autoencoder based Metamodeling for Multi-Objective
Topology Optimization of Electrical Machines.",
  "A trust region reduced basis Pascoletti-Serafini algorithm for
multi-objective PDE-constrained parameter optimization.",
  "A Simple Evolutionary Algorithm for Multi-modal Multi-objective
Optimization.",
  "Benchmarking Subset Selection from Large Candidate Solution Sets
in Evolutionary Multi-objective Optimization.",
  "An Efficient Multi-Indicator and Many-Objective Optimization
Algorithm based on Two-Archive.",
  "Improved Multi-objective Data Stream Clustering with Time and
Memory Optimization.",
  "An outline of multi objective optimization in databases with focus
on flexible skyline queries.",
  "Expected hypervolume improvement for simultaneous multi-objective
and multi-fidelity optimization.",
  "Faster Convergence in Multi-Objective Optimization Algorithms
Based on Decomposition.",
  "Constrained multi-objective optimization of process design
parameters in settings with scarce data: an application to adhesive
bonding.",
]
```