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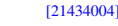


Figure 1: A diagram illustrating the proposed framework for the word acceptances task. The framework consists of a sequence of operations: **compound**, **ARG1**, **ARG2**, **ARG3**, **ARG4**, **ARG5**, **ARG6**, **ARG7**, **ARG8**, **ARG9**, **ARG10**, **ARG11**, **ARG12**, **ARG13**, **ARG14**, **ARG15**, **ARG16**, **ARG17**, **ARG18**, **ARG19**, **ARG20**, **ARG21**, **ARG22**, **ARG23**, **ARG24**, **ARG25**, **ARG26**, **ARG27**, **ARG28**, **ARG29**, **ARG30**, **ARG31**, **ARG32**, **ARG33**, **ARG34**, **ARG35**, **ARG36**, **ARG37**, **ARG38**, **ARG39**, **ARG40**, **ARG41**, **ARG42**, **ARG43**, **ARG44**, **ARG45**, **ARG46**, **ARG47**, **ARG48**, **ARG49**, **ARG50**, **ARG51**, **ARG52**, **ARG53**, **ARG54**, **ARG55**, **ARG56**, **ARG57**, **ARG58**, **ARG59**, **ARG60**, **ARG61**, **ARG62**, **ARG63**, **ARG64**, **ARG65**, **ARG66**, **ARG67**, **ARG68**, **ARG69**, **ARG70**, **ARG71**, **ARG72**, **ARG73**, **ARG74**, **ARG75**, **ARG76**, **ARG77**, **ARG78**, **ARG79**, **ARG80**, **ARG81**, **ARG82**, **ARG83**, **ARG84**, **ARG85**, **ARG86**, **ARG87**, **ARG88**, **ARG89**, **ARG90**, **ARG91**, **ARG92**, **ARG93**, **ARG94**, **ARG95**, **ARG96**, **ARG97**, **ARG98**, **ARG99**, **ARG100**, **ARG101**, **ARG102**, **ARG103**, **ARG104**, **ARG105**, **ARG106**, **ARG107**, **ARG108**, **ARG109**, **ARG110**, **ARG111**, **ARG112**, **ARG113**, **ARG114**, **ARG115**, **ARG116**, **ARG117**, **ARG118**, **ARG119**, **ARG120**, **ARG121**, **ARG122**, **ARG123**, **ARG124**, **ARG125**, **ARG126**, **ARG127**, **ARG128**, **ARG129**, **ARG130**, **ARG131**, **ARG132**, **ARG133**, **ARG134**, **ARG135**, **ARG136**, **ARG137**, **ARG138**, **ARG139**, **ARG140**, **ARG141**, **ARG142**, **ARG143**, **ARG144**, **ARG145**, **ARG146**, **ARG147**, **ARG148**, **ARG149**, **ARG150**, **ARG151**, **ARG152**, **ARG153**, **ARG154**, **ARG155**, **ARG156**, **ARG157**, **ARG158**, **ARG159**, **ARG160**, **ARG161**, **ARG162**, **ARG163**, **ARG164**, **ARG165**, **ARG166**, **ARG167**, **ARG168**, **ARG169**, **ARG170**, **ARG171**, **ARG172**, **ARG173**, **ARG174**, **ARG175**, **ARG176**, **ARG177**, **ARG178**, **ARG179**, **ARG180**, **ARG181**, **ARG182**, **ARG183**, **ARG184**, **ARG185**, **ARG186**, **ARG187**, **ARG188**, **ARG189**, **ARG190**, **ARG191**, **ARG192**, **ARG193**, **ARG194**, **ARG195**, **ARG196**, **ARG197**, **ARG198**, **ARG199**, **ARG200**, **ARG201**, **ARG202**, **ARG203**, **ARG204**, **ARG205**, **ARG206**, **ARG207**, **ARG208**, **ARG209**, **ARG210**, **ARG211**, **ARG212**, **ARG213**, **ARG214**, **ARG215**, **ARG216**, **ARG217**, **ARG218**, **ARG219**, **ARG220**, **ARG221**, **ARG222**, **ARG223**, **ARG224**, **ARG225**, **ARG226**, **ARG227**, **ARG228**, **ARG229**, **ARG230**, **ARG231**, **ARG232**, **ARG233**, **ARG234**, **ARG235**, **ARG236**, **ARG237**, **ARG238**, **ARG239**, **ARG240**, **ARG241**, **ARG242**, **ARG243**, **ARG244**, **ARG245**, **ARG246**, **ARG247**, **ARG248**, **ARG249**, **ARG250**, **ARG251**, **ARG252**, **ARG253**, **ARG254**, **ARG255**, **ARG256**, **ARG257**, **ARG258**, **ARG259**, **ARG260**, **ARG261**, **ARG262**, **ARG263**, **ARG264**, **ARG265**, **ARG266**, **ARG267**, **ARG268**, **ARG269**, **ARG270**, **ARG271**, **ARG272**, **ARG273**, **ARG274**, **ARG275**, **ARG276**, **ARG277**, **ARG278**, **ARG279**, **ARG280**, **ARG281**, **ARG282**, **ARG283**, **ARG284**, **ARG285**, **ARG286**, **ARG287**, **ARG288**, **ARG289**, **ARG290**, **ARG291**, **ARG292**, **ARG293**, **ARG294**, **ARG295**, **ARG296**, **ARG297**, **ARG298**, **ARG299**, **ARG300**, **ARG301**, **ARG302**, **ARG303**, **ARG304**, **ARG305**, **ARG306**, **ARG307**, **ARG308**, **ARG309**, **ARG310**, **ARG311**, **ARG312**, **ARG313**, **ARG314**, **ARG315**, **ARG316**, **ARG317**, **ARG318**, **ARG319**, **ARG320**, **ARG321**, **ARG322**, **ARG323**, **ARG324**, **ARG325**, **ARG326**, **ARG327**, **ARG328**, **ARG329**, **ARG330**, **ARG331**, **ARG332**, **ARG333**, **ARG334**, **ARG335**, **ARG336**, **ARG337**, **ARG338**, **ARG339**, **ARG340**, **ARG341**, **ARG342**, **ARG343**, **ARG344**, **ARG345**, **ARG346**, **ARG347**, **ARG348**, **ARG349**, **ARG350**, **ARG351**, **ARG352**, **ARG353**, **ARG354**, **ARG355**, **ARG356**, **ARG357**, **ARG358**, **ARG359**, **ARG360**, **ARG361**, **ARG362**, **ARG363**, **ARG364**, **ARG365**, **ARG366**, **ARG367**, **ARG368**, **ARG369**, **ARG370**, **ARG371**, **ARG372**, **ARG373**, **ARG374**, **ARG375**, **ARG376**, **ARG377**, **ARG378**, **ARG379**, **ARG380**, **ARG381**, **ARG382**, **ARG383**, **ARG384**, **ARG385**, **ARG386**, **ARG387**, **ARG388**, **ARG389**, **ARG390**, **ARG391**, **ARG392**, **ARG393**, **ARG394**, **ARG395**, **ARG396**, **ARG397**, **ARG398**, **ARG399**, **ARG400**, **ARG401**, **ARG402**, **ARG403**, **ARG404**, **ARG405**, **ARG406**, **ARG407**, **ARG408**, **ARG409**, **ARG410**, **ARG411**, **ARG412**, **ARG413**, **ARG414**, **ARG415**, **ARG416**, **ARG417**

Diagram illustrating the syntactic structure of the sentence: "Negotiable bank-backed business credit instruments typically financing an import order". The diagram shows the hierarchical organization of the sentence into phrases and clauses, with labels for the syntactic category (e.g., NP, VP, PP) and the grammatical function (e.g., subject, object, modifier) of each constituent.

The sentence is analyzed as follows:

- NP** (Noun Phrase): "Negotiable bank-backed business credit instruments typically financing an import order". This NP is the subject of the sentence.
- VP** (Verb Phrase): "are". This VP is the main verb of the sentence.
- PP** (Prepositional Phrase): "at the bank". This PP is a modifier of the NP.
- NP** (Noun Phrase): "business credit instruments". This NP is the head of the NP.
- NP** (Noun Phrase): "typically financing an import order". This NP is a modifier of the NP.

The diagram also shows the internal structure of the NPs and VPs, including the use of prepositional phrases and relative clauses.

Figure 1: A sequence of six diagrams illustrating the step-by-step construction of a neural network architecture for time series forecasting. Each diagram shows a sequence of operations (nodes) connected by arrows, representing the flow of information through the network. The operations include concatenation (c), addition (+), multiplication (*), division (/), and other mathematical functions. The input data is represented by a sequence of nodes labeled 'LONDON', 'named-x', 'a', 'fore-p', 'EURODOLLARS', 'n', 'x', and 'n_x'. The output is represented by a sequence of nodes labeled 'LATE', 'named-x', 'a', 'fore-p', 'EURODOLLARS', 'n', 'x', and 'n_x'. The diagrams show the progression from a simple input sequence to a complex network with multiple layers of operations, including the use of 'AR(1)' and 'AR(2)' models for time series analysis. The final diagram shows the complete network structure, which is used to generate the final output sequence.

Figure 1: Example of the parse trees for the sentence "The London Interbank Offered Rates (LIBOR) are 8 percent for one month, 8 percent for three months, 9 percent for six months, and 12 percent for one year." The parse trees are shown for the entire sentence and for each of the four clauses. The trees are rooted at S (Sentence) and branch into NP (Noun Phrase) and VP (Verb Phrase). The NP branches into the subject (The London Interbank Offered Rates (LIBOR)) and the object (are). The VP branches into the verb (are) and the complement (8 percent for one month, 8 percent for three months, 9 percent for six months, and 12 percent for one year). The complement branches into four clauses, each starting with a comma and a clause marker (and). Each clause branches into a subject (The London Interbank Offered Rates (LIBOR)) and a predicate (are 8 percent for one month, etc.). The subject branches into the determiner (The) and the noun phrase (London Interbank Offered Rates (LIBOR)). The noun phrase branches into the adjective (London), the noun (Interbank), the adjective (Offered), and the noun (Rates (LIBOR)). The predicate branches into the verb (are) and the complement (8 percent for one month, etc.). The complement branches into the number (8), the unit (percent), and the time phrase (for one month, etc.). The time phrase branches into the preposition (for) and the time noun (one month, etc.). The time noun branches into the cardinal number (one) and the time unit (month, etc.).

[illegible]

These q_demi-h-h rate n_of-x-i indications are _ n_i neg-e-h directly a-e-e comparable a-e-p ; n/x compounds ARG1 vary v-i-e widely a-e-e by p-e-u-i location n/x

Source : Telerate Systems Inc .
n:x _ named:x-c named:x-c n:x _

Figure 1 illustrates the mapping of a sentence to a graph structure. The sentence is "Source : Telerate Systems Inc. n:x _ named:x-c named:x-c n:x _". The graph structure consists of nodes: "top", "ARG1", "ARG2", "compound", and "compound". The mapping is as follows: "top" maps to "Source", "ARG1" maps to "n:x", "ARG2" maps to "Telerate", the first "compound" maps to "Systems", and the second "compound" maps to "Inc".

Diagram illustrating the structure of the input sequence for the NER task. The sequence is: MERRILL, LYNCH, READY, ASSETS, TRUST, :, 8.52, %. The diagram shows the sequence being processed by a model, with the output for the sequence being ARG1, ARG2, and ARG1. The sequence is also labeled with "compound" and "compounds" above the words, and "ARG1" and "ARG2" above the punctuation and numbers. The sequence is also labeled with "named:x-c" below the words, and "card:i-i-c" and "n_of:x" below the punctuation and numbers.

Figure 10: A morphological network for the word *average*. The network shows the hierarchical structure of the word, starting from the root *not_p* and branching into various morphemes. The morphemes are represented by nodes in a tree structure, with arrows indicating the flow of information. The nodes are labeled with the morpheme name and its corresponding phonetic transcription. The network is organized into three main branches: the first branch contains the morphemes *ARG1*, *ARG2*, and *ARG3*; the second branch contains the morphemes *ARG4*, *ARG5*, and *ARG6*; and the third branch contains the morphemes *ARG7*, *ARG8*, and *ARG9*. The morphemes are further divided into sub-morphemes, such as *ARG1* being divided into *ARG1.1* and *ARG1.2*, and *ARG2* being divided into *ARG2.1* and *ARG2.2*. The network is a complex web of interconnected nodes, with each node representing a specific morpheme and its phonetic transcription.