# Rajaswa Patil

### Pre-Doctoral Researcher, TCS Research

③ rajaswa.github.io ② patilrajaswa@gmail.com ۞ rajaswa ➢ Google Scholar in rajaswa-patil ♥ TCS TRDDC, 54-B, Hadapsar Industrial Estate, Pune, MH, India. 411013

### Education

Jun 2021 | Birla Institute of Technology and Science (BITS) Pilani

Goa, India

Aug 2017

**B.E., ELECTRICAL & ELECTRONICS** 

**CGPA:** 8.26/10.00

**Thesis:** Modelling Coherence in Spoken Discourse

Study in Advanced Topics: [1] Meta Learning; [2] Computational Neuroscience

## Experience

Aug 2019

Present | Tata Consultancy Services (TCS) - Research | Deep Learning & AI Group [♥] | Pune, India | Jul 2021 | Pre-Doctoral Research Fellow | Advisors: Dr. Gautam Shroff, Dr. Lovekesh Vig, Dr. Shirish Karande

> Working on the broad research topics: NLP for Programming, Cross-domain Semantic Parsing, and Program Synthesis.

Jun 2021 │ Cognizer AI [❷] Bengaluru, India

**Apr 2021** Data Scientist (NLP) - Intern | Manager: Vineeth T M

> Developed APIs & data resources for Question-generation, Grammar-correction, and Text-simplification for the Cognizer Genius platform.

Jun 2021 | Max Planck Institute for Human Cognitive & Brain Sciences [♀] (Remote) Leipzig, Germany Apr 2021 | Summer Research Intern | Advisor: Dr. Lars Meyer

> Experimented with Combinatory Categorial Grammar - CCG parsers (left-branching-based incremental parsing) for modelling human-like language processing.

Mar 2021 | IIIT Delhi | Multimodal Digital Media Analysis (MIDAS) Lab [♥] Delhi, India

Aug 2020 | Research Assistant (Bachelor Thesis) | Advisors: Prof. Rajiv Ratn Shah, Yaman Kumar Singla

- > Worked on modelling information structure and coherence in spontaneous spoken discourse.
- > Developed annotation pipelines & data resources for disfluency and content relevance & sufficiency for ESL speech data.

**Dec 2019** | Research Intern | Advisors: Prof. Rajiv Ratn Shah, Yaman Kumar Singla

Research Assistant | Advisor: Prof. Veeky Baths

> Contributed to the Berlitz SLTI automatic language proficiency - speech scoring system.

May 2021 │ BITS Pilani (Goa Campus) │ Cognitive Neuroscience Lab [�] Goa, India

> Developed a benchmark for syntactic evaluation of multilingual language models for Indic languages.

- > Lead projects on Mental Lexicon Development and EEG-based brain imagery.
- > Organized and volunteered for various events under the ERASMUS iBRAIN project.
- > Designed and implemented an experiment for EEG data collection (6 subjects with 200 trials each) to inspect the role of low-level visual representations (BA-18 & BA-19) in spoken word processing.

May 2021 | Indian Institute of Technology, Bombay | Department of CS&E [�] | Mumbai, India Dec 2019 | Summer Research Intern | Advisor: Prof. Ganesh Ramakrishnan

- > Implemented a NLP pipeline for open-domain opinion-mining & aspect-based sentiment-analysis in natural language text.
- > Built various text-based utilities for entity resolution, topic extraction, theme extraction, and lexicon-based sentiment polarity extraction.

Towards Using Diachronic Distributed Word Representations as Models of Lexical Development 🔀 [S.2] Arijit Gupta\*, <u>Rajaswa Patil\*</u>, Veeky Baths In Submission OpenReview [S.1] Towards Modelling Coherence in Spoken Discourse Rajaswa Patil\*, Yaman Kumar Singla\*, Rajiv Ratn Shah, Mika Hama, Roger Zimmermann Working Paper arXiv DRIFT: A Toolkit for Diachronic Analysis of Scientific Literature 🚨 🕠 [C.1] Abheesht Sharma\*, Gunjan Chhablani\*, Harshit Pandey\*, Rajaswa Patil The 2021 Conference on Empirical Methods in Natural Language Processing (Virtual) EMNLP'21 [W.4]Vyākarana: A Colorless Green Benchmark for Syntactic Evaluation in Indic Languages 🔼 🗘 Rajaswa Patil, Jasleen Dhillon, Siddhant Mahurkar, Saumitra Kulkarni, Manav Malhotra, Veeky Baths The First Workshop on Multilingual Representation Learning (Virtual) MRL'21 [W.3]BPGC at SemEval-2020 Task 11: Propaganda Detection in News Articles with Multi-Granularity Knowledge Sharing and Linguistic Features Based Ensemble Learning 🔼 🕠 Rajaswa Patil, Somesh Singh, Swati Agarwal The Fourteenth Workshop on Semantic Evaluation (Virtual) SemEval'20 CNRL at SemEval-2020 Task 5: Modelling Causal Reasoning in Language with Multi-Head Self-Attention [W.2]Weights Based Counterfactual Detection 🔼 🗘 Rajaswa Patil, Veeky Baths The Fourteenth Workshop on Semantic Evaluation (Virtual) SemEval'20 [W.1] LRG at SemEval-2020 Task 7: Assessing the Ability of BERT and Derivative Models to Perform Short-Edits Based Humor Grading 🔼 🗘 Siddhant Mahurkar\*, Rajaswa Patil\* The Fourteenth Workshop on Semantic Evaluation (Virtual) SemEval'20 [P.2] Word2Brain2Image: Visual Reconstruction from Spoken Word Representations 🔁 🗘 Ajay Subramanian, Rajaswa Patil, Veeky Baths The Sixth Annual Conference of the Association for Cognitive Science, 2019 ACCS'19 Citta: A Lite Semantic Recommendation Framework for Digital Libraries 🔼 🔿 [P.1] Rajaswa Patil, Siddhant Mahurkar

# Select Research Projects

#### Semantic Parsing: A Living Literature Review [♀] [♠]

Sep'21 - Present

KEDL'19

- > A website covering modelling and data resources for Semantic Parsing in NLP.
- > Covers the Text-to-SQL semantic parsing task.
- > Covers the Abstract Representation parsing task (Ex: UCCA, AMR, DRG, EDS, etc.).
- > Covers the Shallow Semantic parsing tasks (Ex: semantic role labelling).

#### Diachronic Analysis of Scientific Literature (DRIFT) [3]

Mar'21 - Present

- > DRIFT is a toolkit for  $\underline{\mathbf{D}}$  iach  $\underline{\mathbf{R}}$  onic analysis of scient  $\underline{\mathbf{IF}}$  ic li $\underline{\mathbf{T}}$  erature. [Demo @ EMNLP'21]
- > DRIFT offers UI utilities for convenient training of Diachronic Embeddings for Scientific Corpora.

The NDLI-UNESCO International Symposium on Knowledge Engineering for Digital Library Design 2019

- > DRIFT covers **nine** analysis methods: word cloud, productivity & frequency plot, acceleration plot, semantic drift, tracking clusters, acceleration heatmap, similarity trends, keyword visualization, and LDA topic modeling.
- > Presented at: EMNLP'21, Aon Research.

Academic Service (\* = sub-reviewer)

**Program Committee** ACL-SRW'22, MRL'21

Reviewer ACL-SRW'22, ICON'21\*, MRL'21, EAAI'21\*

Volunteer ACL'21, Neuromatch'21

> Invited Talk - BITS Goa > ACL-IJCNLP SRW 2021 Presentation [▶]  **NOTE: A Toolkit for Diachronic Analysis of Scientific Literature"  > EMNLP 2021 Presentation [▶]  **November 2021 (Remote October 2021 (Remote October 2021)  **November 2021 (Remote O	Taiks	
Nuvited Talk - BITS Goa	"Vyākarana: A Colorless Green Benchmark for Syntactic Evaluation in Indic Language	es"
** ACL-IJCNLP SRW 2021 Presentation    **PRIFT: A Toolkit for Diachronic Analysis of Scientific Literature"  > EMNLP 2021 Presentation    **Syntactic Processing and Language Comprehension"  > Round Table Dicussion - CCCP Conference  **Syntactic Processing and Language Comprehension"  > Round Table Dicussion - CCCP Conference  **Getting Started with ML/NLP/Undergraduate Research"  > Getting Started with ML_ACM BITS Goa Chapter    **Syntactic Processing And Language Comprehension"  > Getting Started with ML_ACM BITS Goa Chapter    **Jetting Started with ML_ACM BITS Goa Chapter    **July 2021 (Remote May 2021 (Re	> MRL EMNLP 2021 Presentation [■]	November 2021 (Remote)
"DRIFT: A Toolkit for Diachronic Analysis of Scientific Literature"  > EMNLP 2021 Presentation [		September 2021 (Remote)
November 2021 (Remote > Invited Talk - Aon Research October 2021 (Remote > Invited Talk - Aon Research October 2021 (Remote Cotober 2021 (Remote "Syntactic Processing and Language Comprehension" > Round Table Dicussion - CCCP Conference December 2020 (Remote "Getting Started with ML/NLP/Undergraduate Research" > Getting Started with ML/NLP/Undergraduate Research" > Getting Started with ML - ACM BITS Goa Chapter [	> ACL-IJCNLP SRW 2021 Presentation	August 2021 (Remote)
Syntactic Processing and Language Comprehension"  > Round Table Dicussion - CCCP Conference  "Getting Started with ML/NLP/Undergraduate Research"  > Getting Started with ML-ACM BITS Goa Chapter □ July 2021 (Remote Total Started with ML-ACM BITS Goa Chapter □ July 2021 (Remote Total Started with ML-ACM BITS Goa Chapter □ May 2021 (Remote Total Started with ML-ACM BITS Goa Chapter □ May 2021 (Remote Total Started with ML-ACM BITS Goa Chapter □ May 2021 (Remote Total Started May 2021 (Remote Total May 2021 (R	"DRIFT: A Toolkit for Diachronic Analysis of Scientific Literature"	
"Syntactic Processing and Language Comprehension"  > Round Table Dicussion - CCCP Conference  "Getting Started with ML-NLP/Undergraduate Research"  > Getting Started with ML-ACM BITS Goa Chapter [▶] July 2021 (Remote Nay 2021 (Remote Nay 2021) (		November 2021 (Remote)
**Sequence of the sequence of	> Invited Talk - Aon Research	October 2021 (Remote)
"Getting Started with ML/NLP/Undergraduate Research"  > Getting Started with ML - ACM BITS Goa Chapter [ ] July 2021 (Remote Amay 2021) (Remote September 2020) (Goa, India September 2020) (Goa, Indi	"Syntactic Processing and Language Comprehension"	
> Getting Started with ML - ACM BITS Goa Chapter [ ] July 2021 (Remote > Thesis Talks - CTE BITS Goa [ ] May 2021 (Remote > Thesis Talks - CTE BITS Goa [ ] May 2021 (Remote > Introduction to NLP Research - TIP BITS Goa September 2020 (Goa, India   India   September 2020 (Goa, India   In	> Round Table Dicussion - CCCP Conference	December 2020 (Remote)
> Thesis Talks - CTE BITS Goa	"Getting Started with ML/NLP/Undergraduate Research"	
Teaching and Leadership Roles  Language Research Group (LRG) - BITS Goa Founder & Lead [❷] Aug'19 - Present Setablished a student research group for NLP & Psycholinguistics The group has currently published 11 papers & three projects  Birla Institute of Technology and Science (BITS) Pilani, Goa Campus Teaching Assistant Aug'20 - May'2 SITS F315: Introduction to Cognitive Neuroscience  > BITS C382: Neuroscience and AI  QSTP & CTE (student-run clubs at BITS Goa) Instructor May'19 - Dec'1  > Introduction to Machine Learning & Deep Learning  > Deep Learning with PyTorch  Software and Open Source Contributions  > ML4Code: Machine Learning for Big Code and Naturalness - commits, website  > DecepticoNLP: Python Library for Robustness Monitoring and Adversarial Debugging of NLP models - commits  References  Dr. Gautam Shroff Scientist - TCS Research [❷]  Dr. Lovekesh Vig Principal Scientist - TCS Research [❷]  Dr. Lovekesh Vig Principal Scientist - TCS Research [❷]  Dr. Shirish Karande Senior Scientist - TCS Research [❷]  Dr. Lars Meyer Research Group Leader - Max Planck Research Group Language Cycles [❷]  Dr. Lars Meyer Research Group Leader - Max Planck Research Group Language Cycles [❷]  Dr. Lars Meyer Research Group Leader - Max Planck Research Group Language Cycles [❷]	> Getting Started with ML - ACM BITS Goa Chapter [■]	July 2021 (Remote)
Teaching and Leadership Roles  Language Research Group (LRG) - BITS Goa Founder & Lead [ ] Aug'19 - Presen  > Established a student research group for NLP & Psycholinguistics  > The group has currently published 11 papers & three projects  Birla Institute of Technology and Science (BITS) Pilani, Goa Campus Teaching Assistant Aug'20 - May'2  > BITS F315: Introduction to Cognitive Neuroscience  > BITS G382: Neuroscience and AI  QSTP & CTE (student-run clubs at BITS Goa) Instructor May'19 - Dec'1  > Introduction to Machine Learning & Deep Learning  > Deep Learning with PyTorch  Software and Open Source Contributions  > ML4Code: Machine Learning for Big Code and Naturalness - commits, website  > Semantic Parsing: Modeling and Data resources for Semantic Parsing - commits, website  > DecepticoNLP: Python Library for Robustness Monitoring and Adversarial Debugging of NLP models - commits  References  Dr. Gautam Shroff		May 2021 (Remote)
Language Research Group (LRG) - BITS Goa Founder & Lead [ ] Aug'19 - Presen  > Established a student research group for NLP & Psycholinguistics  > The group has currently published 11 papers & three projects  Birla Institute of Technology and Science (BITS) Pilani, Goa Campus Teaching Assistant Aug'20 - May'2  > BITS F315: Introduction to Cognitive Neuroscience  > BITS C382: Neuroscience and AI  QSTP & CTE (student-run clubs at BITS Goa) Instructor May'19 - Dec'1  > Introduction to Machine Learning & Deep Learning  > Deep Learning with PyTorch  Software and Open Source Contributions  > ML4Code: Machine Learning for Big Code and Naturalness - commits, website  > Semantic Parsing: Modeling and Data resources for Semantic Parsing - commits, website  > DecepticoNLP: Python Library for Robustness Monitoring and Adversarial Debugging of NLP models - commits  References  Dr. Gautam Shroff Scientist - TCS Research [ ]  Dr. Lovekesh Vig Principal Scientist - TCS Research [ ]  Dr. Lovekesh Vig Research Group Leader - Max Planck Research Group Language Cycles [ ]  Dr. Lars Meyer Research Group Leader - Max Planck Research Group Language Cycles [ ]	> Introduction to NLP Research - TIP BITS Goa	September 2020 (Goa, India)
Language Research Group (LRG) - BITS Goa Founder & Lead [ ] Aug'19 - Presen  > Established a student research group for NLP & Psycholinguistics  > The group has currently published 11 papers & three projects  Birla Institute of Technology and Science (BITS) Pilani, Goa Campus Teaching Assistant Aug'20 - May'2  > BITS F315: Introduction to Cognitive Neuroscience  > BITS C382: Neuroscience and AI  QSTP & CTE (student-run clubs at BITS Goa) Instructor May'19 - Dec'1  > Introduction to Machine Learning & Deep Learning  > Deep Learning with PyTorch  Software and Open Source Contributions  > ML4Code: Machine Learning for Big Code and Naturalness - commits, website  > Semantic Parsing: Modeling and Data resources for Semantic Parsing - commits, website  > DecepticoNLP: Python Library for Robustness Monitoring and Adversarial Debugging of NLP models - commits  References  Dr. Gautam Shroff Scientist - TCS Research [ ]  Dr. Lovekesh Vig Principal Scientist - TCS Research [ ]  Dr. Lovekesh Vig Research Group Leader - Max Planck Research Group Language Cycles [ ]  Dr. Lars Meyer Research Group Leader - Max Planck Research Group Language Cycles [ ]		
> Established a student research group for NLP & Psycholinguistics > The group has currently published 11 papers & three projects  Birla Institute of Technology and Science (BITS) Pilani, Goa Campus Teaching Assistant Aug'20 - May'2 > BITS F315: Introduction to Cognitive Neuroscience > BITS C382: Neuroscience and AI  QSTP & CTE (student-run clubs at BITS Goa) Instructor May'19 - Dec'1 > Introduction to Machine Learning & Deep Learning > Deep Learning with PyTorch  Software and Open Source Contributions > ML4Code: Machine Learning for Big Code and Naturalness - commits, website > Semantic Parsing: Modeling and Data resources for Semantic Parsing - commits, website > DecepticoNLP: Python Library for Robustness Monitoring and Adversarial Debugging of NLP models - commits  References  Dr. Gautam Shroff Scientist - TCS Research Por. Shrish Karande Senior Scientist - TCS Research Por. Shrish Karande Senior Scientist - TCS Research Por. Shrish Karande Senior Scientist - TCS Research Por. Lars Meyer Research Group Leader - Max Planck Research Group Language Cycles Por. Senior Max Planck Research Group Language Cycles Page 1 Pa	Teaching and Leadership Roles	
> The group has currently published 11 papers & three projects  Birla Institute of Technology and Science (BITS) Pilani, Goa Campus Teaching Assistant Aug'20 - May'2 > BITS F315: Introduction to Cognitive Neuroscience > BITS C382: Neuroscience and AI  QSTP & CTE (student-run clubs at BITS Goa) Instructor May'19 - Dec'1 > Introduction to Machine Learning & Deep Learning > Deep Learning with PyTorch  Software and Open Source Contributions > ML4Code: Machine Learning for Big Code and Naturalness - commits, website > Semantic Parsing: Modeling and Data resources for Semantic Parsing - commits, website > DecepticoNLP: Python Library for Robustness Monitoring and Adversarial Debugging of NLP models - commits  References  Dr. Gautam Shroff Scientist - TCS Research Por. Lovekesh Vig Principal Scientist - TCS Research Por. Senior Scientist - TCS Research Vineeth T M Senior Scientist - TCS Research Vineeth T M Bata Science Architect - Cognizer AI Vineeth T M Research Group Leader - Max Planck Research Group Language Cycles Por. Lars Meyer Research Group Leader - Max Planck Research Group Language Cycles Parsian Language Cycles Parsian Parsia Planck Research Group Language Cycles Parsia Planck Research Group Language Cycles Parsia Planck Research Parsia Planck P	Language Research Group (LRG) - BITS Goa Founder & Lead [♥]	Aug'19 - Present
Birla Institute of Technology and Science (BITS) Pilani, Goa Campus Teaching Assistant  Aug'20 - May'2  BITS F315: Introduction to Cognitive Neuroscience  BITS C382: Neuroscience and AI  QSTP & CTE (student-run clubs at BITS Goa) Instructor  Introduction to Machine Learning & Deep Learning  Deep Learning with PyTorch  Software and Open Source Contributions  ML4Code: Machine Learning for Big Code and Naturalness - commits, website  Semantic Parsing: Modeling and Data resources for Semantic Parsing - commits, website  DecepticoNLP: Python Library for Robustness Monitoring and Adversarial Debugging of NLP models - commits  References  Dr. Gautam Shroff Scientist - TCS Research Por. Senior Scientist - TCS Research Por. Shrirish Karande Senior Scientist - TCS Research Por. Shrirish Karande Senior Scientist - TCS Research Por. University TM Data Science Architect - Cognizer AI Por. Lars Meyer Research Group Leader - Max Planck Research Group Language Cycles Position Senior Scientis Position Po	> Established a student research group for NLP & Psycholinguistics	
> BITS F315: Introduction to Cognitive Neuroscience > BITS C382: Neuroscience and AI  OSTP & CTE (student-run clubs at BITS Goa) Instructor May'19 - Dec'1 > Introduction to Machine Learning & Deep Learning > Deep Learning with PyTorch  Software and Open Source Contributions  > ML4Code: Machine Learning for Big Code and Naturalness - commits, website > Semantic Parsing: Modeling and Data resources for Semantic Parsing - commits, website > DecepticoNLP: Python Library for Robustness Monitoring and Adversarial Debugging of NLP models - commits  References  Dr. Gautam Shroff Seientist - TCS Research [] Dr. Lovekesh Vig Principal Scientist - TCS Research [] Dr. Shirish Karande Senior Scientist - TCS Research [] Vineeth T M Data Science Architect - Cognizer AI [] Dr. Lars Meyer Research Group Leader - Max Planck Research Group Language Cycles []	> The group has currently published 11 papers & three projects	
> BITS C382: Neuroscience and AI  QSTP & CTE (student-run clubs at BITS Goa) Instructor May'19 - Dec'1 > Introduction to Machine Learning & Deep Learning > Deep Learning with PyTorch  Software and Open Source Contributions  > ML4Code: Machine Learning for Big Code and Naturalness - commits, website  > Semantic Parsing: Modeling and Data resources for Semantic Parsing - commits, website  > DecepticoNLP: Python Library for Robustness Monitoring and Adversarial Debugging of NLP models - commits  References  Dr. Gautam Shroff Scientist - TCS Research [] Dr. Lovekesh Vig Principal Scientist - TCS Research [] Dr. Shirish Karande Senior Scientist - TCS Research [] Vineeth T M Data Science Architect - Cognizer AI [] Dr. Lars Meyer Research Group Leader - Max Planck Research Group Language Cycles []	Birla Institute of Technology and Science (BITS) Pilani, Goa Campus Teaching Assistan	t Aug'20 - May'21
QSTP & CTE (student-run clubs at BITS Goa) Instructor  Introduction to Machine Learning & Deep Learning Deep Learning with PyTorch  Software and Open Source Contributions  ML4Code: Machine Learning for Big Code and Naturalness - commits, website  Semantic Parsing: Modeling and Data resources for Semantic Parsing - commits, website  DecepticoNLP: Python Library for Robustness Monitoring and Adversarial Debugging of NLP models - commits  References  Dr. Gautam Shroff Seintist, and Head - TCS Research [3] Dr. Lovekesh Vig Principal Scientist - TCS Research [3] Dr. Shrish Karande Senior Scientist - TCS Research [3] Vineeth T M Data Science Architect - Cognizer AI [3] Dr. Lars Meyer Research Group Leader - Max Planck Research Group Language Cycles [3]	> BITS F315: Introduction to Cognitive Neuroscience	
> Introduction to Machine Learning & Deep Learning > Deep Learning with PyTorch  Software and Open Source Contributions  > ML4Code: Machine Learning for Big Code and Naturalness - commits, website  > Semantic Parsing: Modeling and Data resources for Semantic Parsing - commits, website  > DecepticoNLP: Python Library for Robustness Monitoring and Adversarial Debugging of NLP models - commits  References  Dr. Gautam Shroff	> BITS C382: Neuroscience and AI	
> Deep Learning with PyTorch  Software and Open Source Contributions  > ML4Code: Machine Learning for Big Code and Naturalness - commits, website  > Semantic Parsing: Modeling and Data resources for Semantic Parsing - commits, website  > DecepticoNLP: Python Library for Robustness Monitoring and Adversarial Debugging of NLP models - commits  References  Dr. Gautam Shroff Senior Vice President, Chief Scientist, and Head - TCS Research [ Dr. Lovekesh Vig Principal Scientist - TCS Research [ Dr. Shirish Karande Senior Scientist - TCS Research [ Dr. Shirish Karande Senior Scientist - TCS Research [ Dr. Shirish Karande Senior Scientist - TCS Research [ Dr. Shirish Karande Senior Scientist - TCS Research [ Dr. Lars Meyer Research Group Leader - Max Planck Research Group Language Cycles [ Dr. Lars Meyer Research Group Leader - Max Planck Research Group Language Cycles [ Dr. Shirish Karande Research Group Language Cycles [ Dr. Lars Meyer Research Group Leader - Max Planck Research Group Language Cycles [ Dr. Shirish Karande Research Group Language Cycles [ Dr. Lars Meyer Research Group Leader - Max Planck Research Group Language Cycles [ Dr. Lars Meyer Research Group Leader - Max Planck Researc	QSTP & CTE (student-run clubs at BITS Goa) Instructor	May'19 - Dec'19
> Deep Learning with PyTorch  Software and Open Source Contributions  > ML4Code: Machine Learning for Big Code and Naturalness - commits, website  > Semantic Parsing: Modeling and Data resources for Semantic Parsing - commits, website  > DecepticoNLP: Python Library for Robustness Monitoring and Adversarial Debugging of NLP models - commits  References  Dr. Gautam Shroff Senior Vice President, Chief Scientist, and Head - TCS Research [ Dr. Lovekesh Vig Principal Scientist - TCS Research [ Dr. Shirish Karande Senior Scientist - TCS Research [ Dr. Shirish Karande Senior Scientist - TCS Research [ Dr. Shirish Karande Senior Scientist - TCS Research [ Dr. Shirish Karande Senior Scientist - TCS Research [ Dr. Lars Meyer Research Group Leader - Max Planck Research Group Language Cycles [ Dr. Lars Meyer Research Group Leader - Max Planck Research Group Language Cycles [ Dr. Shirish Karande Research Group Language Cycles [ Dr. Lars Meyer Research Group Leader - Max Planck Research Group Language Cycles [ Dr. Shirish Karande Research Group Language Cycles [ Dr. Lars Meyer Research Group Leader - Max Planck Research Group Language Cycles [ Dr. Lars Meyer Research Group Leader - Max Planck Researc	> Introduction to Machine Learning & Deep Learning	•
> ML4Code: Machine Learning for Big Code and Naturalness - commits, website  > Semantic Parsing: Modeling and Data resources for Semantic Parsing - commits, website  > DecepticoNLP: Python Library for Robustness Monitoring and Adversarial Debugging of NLP models - commits  References  Dr. Gautam Shroff Seintist, and Head - TCS Research [②]  Dr. Lovekesh Vig Principal Scientist - TCS Research [③]  Dr. Shirish Karande Senior Scientist - TCS Research [③]  Vineeth T M Data Science Architect - Cognizer AI [③]  Dr. Lars Meyer Research Group Leader - Max Planck Research Group Language Cycles [④]		
> ML4Code: Machine Learning for Big Code and Naturalness - commits, website  > Semantic Parsing: Modeling and Data resources for Semantic Parsing - commits, website  > DecepticoNLP: Python Library for Robustness Monitoring and Adversarial Debugging of NLP models - commits  References  Dr. Gautam Shroff Seintist, and Head - TCS Research [②]  Dr. Lovekesh Vig Principal Scientist - TCS Research [③]  Dr. Shirish Karande Senior Scientist - TCS Research [③]  Vineeth T M Data Science Architect - Cognizer AI [③]  Dr. Lars Meyer Research Group Leader - Max Planck Research Group Language Cycles [④]		
> Semantic Parsing: Modeling and Data resources for Semantic Parsing - commits, website  > DecepticoNLP: Python Library for Robustness Monitoring and Adversarial Debugging of NLP models - commits  References  Dr. Gautam Shroff Senior Vice President, Chief Scientist, and Head - TCS Research [♥] Dr. Lovekesh Vig Principal Scientist - TCS Research [♥] Dr. Shirish Karande Senior Scientist - TCS Research [♥] Vineeth T M Data Science Architect - Cognizer AI [♥] Dr. Lars Meyer Research Group Leader - Max Planck Research Group Language Cycles [♥]	Software and Open Source Contributions	
> DecepticoNLP: Python Library for Robustness Monitoring and Adversarial Debugging of NLP models - commits  References  Dr. Gautam Shroff Senior Vice President, Chief Scientist, and Head - TCS Research [♥]  Dr. Lovekesh Vig Principal Scientist - TCS Research [♥]  Dr. Shirish Karande Senior Scientist - TCS Research [♥]  Vineeth T M Data Science Architect - Cognizer AI [♥]  Dr. Lars Meyer Research Group Leader - Max Planck Research Group Language Cycles [♥]	> ML4Code: Machine Learning for Big Code and Naturalness - commits, website	
> DecepticoNLP: Python Library for Robustness Monitoring and Adversarial Debugging of NLP models - commits  References  Dr. Gautam Shroff Senior Vice President, Chief Scientist, and Head - TCS Research [♥]  Dr. Lovekesh Vig Principal Scientist - TCS Research [♥]  Dr. Shirish Karande Senior Scientist - TCS Research [♥]  Vineeth T M Data Science Architect - Cognizer AI [♥]  Dr. Lars Meyer Research Group Leader - Max Planck Research Group Language Cycles [♥]	> Semantic Parsing: Modeling and Data resources for Semantic Parsing - commits, website	
References  Dr. Gautam Shroff Scientist, and Head - TCS Research [♥]  Dr. Lovekesh Vig Principal Scientist - TCS Research [♥]  Dr. Shirish Karande Senior Scientist - TCS Research [♥]  Vineeth T M Data Science Architect - Cognizer AI [♥]  Dr. Lars Meyer Research Group Leader - Max Planck Research Group Language Cycles [♥]		NI D madala ammita
Dr. Gautam Shroff	Decepticon Property for Robustness Monitoring and Adversarial Debugging of	NLP models - commits
Dr. Gautam Shroff		
Principal Scientist - TCS Research [] Dr. Shirish Karande		
Dr. Shirish Karande		
Vineeth T MData Science Architect - Cognizer AI [�] Dr. Lars MeyerResearch Group Leader - Max Planck Research Group Language Cycles [�]		
Dr. Lars Meyer Research Group Leader - Max Planck Research Group Language Cycles 🚱		
	Prof. Veeky Baths Associate Professor - Dept. of B	iological Sciences, BITS Goa 🚱

> Prof. Rajiv Ratn Shah
 Assistant Professor - Dept. of Computer Science & Engineering, IIIT Delhi [❷]
 > Yaman Kumar
 Research Scientist - Adobe Media Data Science Research [❷]
 > Prof. Swati Agarwal
 Assitant Professor - Dept. of Computer Science & Information Systems, BITS Goa [❷]
 > Prof. Ganesh Ramakrishnan
 Chair Professor - Dept. of Computer Science & Engineering, IIT Bombay [❷]