Saurabh JAIN

NLP Researcher

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⚙ RESEARCH INTERESTS

> Conversational AI
> Natural Language Understanding
> Text Generation and Language Modeling
> Applied NLP and Deep Learning

🎓 EDUCATION

2020-2022	**National University of Singapore**
	Master of Computing - Dissertation Track, Artificial Intelligence
2011-2015	**Malaviya National Institute of Technology, Jaipur**
	B.Tech, Computer Science & Engineering

💼 PROFESSIONAL EXPERIENCE

July, 2020
Feb, 2017

AI Developer, ACTIVE INTELLIGENCE, Bengaluru
> Active Intelligence develops conversational system for banking operations.
> Worked as an NLP engineer in the research team.
> I contributed in multiple NLP projects to build a conversational system from scratch.

NLP | Deep Learning | Pytorch | Tensorflow | Python

Jan, 2017
June 2015

Member of Technical Staff, BLUESTACKS, Gurugram
> Bluestacks is an app player which runs Android applications on Windows operating system.
> I single handily developed File Manager and Location service provider for the app player.
> My responsibilities also include development of applications to maintain communication between Bluestacks and host machine.

Java

📖 DISSERTATION

COMPARATIVE RESPONSE GENERATION | National University of Singapore   2021

🔗 link

Goal of this work is to generate a comparative text expressing both positive and negative opinions regarding a product present in e-commerce reviews. We created dataset from scratch and built a model on top of BERT architecture to generate comparative text.

Python | PyTorch | BERT | HuggingFace

📖 PUBLICATIONS

2022	Comparative Snippet Generation. **Saurabh Jain**, Yisong Miao, Min-Yen Kan. *ECNLP 2022 (Workshop at ACL 2022)*. (Accepted, 🔗 link)
2021	MRCBert : A Machine Reading Comprehension Approach for Unsupervised Summarization. **Saurabh Jain**, Guokai Tang, Lim Sze Chi. *Arxiv*. (Course Work Paper, 🔗 link)

📑 GRADUATE COURSES

Neural Networks And Deep Learning II (A+)	Knowledge Discovery And Data Mining (A+)
AI Planning And Decision Making (A)	Natural Language Processing (A-)
Dissertation (Complete And Satisfactory)	Neural Networks And Deep Learning (B+)

💻 PROJECTS

CONTEXT CHANGE DETECTION | Active Intelligence   2019-2020

Aim of this project was to detect change in context during conversation. Training dataset contained 7M occurrences of banking conversations developed in-house. We modeled this problem as a classification task and used an attention-based architecture to encode text. We received around 89% prediction accuracy.

PyTorch | Spacy | Attention Network

INTENT CLASSIFICATION | Active Intelligence   2018-2019

We used hierarchical attention network to classify input sentences in predefined classes. Model was trained on 200k instances and output 92% classification accuracy.

`PyTorch` `Spacy`

NAMED ENTITY RECOGNITION | Active Intelligence   2018

Aim of this project was to recognize entities like money, account and phone number, pin, otp, etc., during conversations. We used Bi-LSTM network and trained on a dataset prepared in-house and received 92% accuracy.

`PyTorch` `Spacy`

☰ SKILLS

Programming	Python
Frameworks	Pytorch, Tensorflow
Areas	Natural Language Processing, Deep Learning, Machine Learning
Libraries	Spacy, NLTK, Numpy, Sklearn, Pandas

🏆 HONORS & AWARDS

2019	Honored on 72nd Independence Day of India by Divine Light Trust for the Blind for helping foundation.
2018	Member of team which won The Best Deep Learning innovation award at TechXLR8 Asia award 2018

🌐 LANGUAGES

English   ● ● ● ● ●
Hindi   ● ● ● ● ●

❝ REFERENCES

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