

# Aseem Srivastava

## PhD Scholar at LCS2 Lab, IIIT Delhi, India

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A fourth-year PhD student at IIIT Delhi, currently under the guidance of Dr. Md. Shad Akhtar and Dr. Tanmoy Chakraborty at LCS2 Lab, India. My research pursuits revolve around NLP/Deep Learning for Dialogue Systems, with a specialized focus on improvising virtual mental health assistants. I specialize in applying large language models (LLMs) with deep learning methods for NLP and encourage open sourcing with production-ready research.

## EDUCATION

<b>INDRAPRASTHA INSTITUTE OF INFORMATION TECHNOLOGY (IIIT DELHI), DELHI</b> PhD in Computer Science and Engineering (CSE) <b>Thesis :</b> Building Blocks of Dialogue System for Effective Virtual Mental Health Assistants <b>Supervisor :</b> Dr. Md. Shad Akhtar & Dr. Tanmoy Chakraborty	2020 - PRESENT
<b>KAMLA NEHRU INSTITUTE OF TECHNOLOGY (KNIT), SULTANPUR</b> B.Tech in Computer Science and Engineering (CSE) <b>Thesis :</b> Amazon Review Analysis to Gauge User Sentiments	2016 - 2020

## PUBLICATIONS

<b>The Web Conf 2023</b>	<b>Response-act Guided Reinforced Dialogue Generation for Mental Health Counseling</b> <i>Aseem Srivastava, Ishan Pandey, Md. Shad Akhtar, Tanmoy Chakraborty</i> <span>Transformer Reinforcement Learning</span> <span>GenerativeAI</span> <span>Controlled Generation</span>
<b>KDD 2022</b>	<b>Counseling Summarization using Mental Health Knowledge Guided Utterance Filtering</b> <i>Aseem Srivastava, Tharun Suresh, Grin Lord, Md. Shad Akhtar, Tanmoy Chakraborty</i> <span>LLM</span> <span>Knowledge Infusion</span> <span>Controlled Generation</span>
<b>ICWSM 2022</b>	<b>A Computational Approach to Understand Mental Health from Reddit : Knowledge-aware Multitask Learning Framework</b> <i>Usha Lokala, Aseem Srivastava, Triyasha Ghosh Dastidar, Tanmoy Chakraborty, Md Shad Akhtar, Maryam Panahiazar, Amit Sheth</i> <span>Transformers</span> <span>Reddit Mental Health</span> <span>Knowledge Infusion</span>
<b>WSDM 2022</b>	<b>Speaker and Time-aware Joint Contextual Learning for Dialogue-act Classification in Counselling Conversations</b> <i>Ganeshan Malhotra, Abdul Waheed, Aseem Srivastava, Md. Shad Akhtar, Tanmoy Chakraborty</i> <span>Transformers</span> <span>Joint Learning</span>
<b>Under Review</b>	<ul style="list-style-type: none"><li>&gt; Critical Behavioral Traits Foster Peer Engagement in Online Reddit Communities</li><li>&gt; Sentiment-guided Commonsense-aware Response Generation for Counseling</li><li>&gt; Knowledge Planning in Large Language Models for Domain-Aligned Dialogue Summarization</li></ul>

## ORGANIZED TUTORIALS & WORKSHOPS

<b>ICON 2023 (Tutorial)</b>	<b>Building Blocks of AI-Driven Mental Health Counseling</b> <b>Organizers :</b> <i>Aseem Srivastava, Neeraj, Yash Kumar Atri, Shivani Kumar, Shad Akhtar, Tanmoy Chakraborty</i>
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## SKILLS

<b>Interests</b>	NLP - Dialogue Systems, Deep Learning, Machine Learning, Human/User Behavior
<b>Technical</b>	Data Structures and Algorithms, Python, PyTorch, Langchain, Tensorflow, Git, AWS, Flask
<b>Web &amp; Android</b>	NodeJS, Flutter, MySQL, NoSQL

## EXPERIENCE

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### DATA SCIENCE INTERN

JULY 2019 - AUGUST 2019

Analytics Vidhya | Gurgaon, India

Spearheaded the development of machine learning and deep learning models for an in-house learning portal. In addition, I guided a team in enhancing their comprehension of Deep Neural Network concepts, facilitating more effective innovation.

Machine Learning   Deep Learning   Text Analytics

## INVITED TALKS & SYMPOSIUMS

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### [Symposiums]

- > **Google Research Week 2023 & 2024** – Got two back to back invitations to attend and present our work at Research Week with Google, India.

### [Talks]

- > **ACM ARCS 2024** – Got invited by ACM India to present a lightning talk and our work on dialogue response generation in NISER Bhubhneshwar.
- > **Cord.AI 2023** – Got invited to present a talk on Role of Conversational Agent's Component in Digital Counseling.

## POSITION OF RESPONSIBILITY

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- 2024   Serving as Program Committee member at ASONAM 2024, Italy.
- 2023   Leading an open-source community of 500+ like-minded enthusiasts to encourage awareness and knowledge of Deep Learning for NLP.
- 2022   Served as Web Chair at International Conference on Natural Language Processing (ICON) 2022, India.
- 2022   Served as Web Chair at CONSTRAINT Workshop (co-located w/ ACL 2022).
- 2021   Served as a volunteer at notable conferences, including KDD, ACL, AACL, COLING, and WSDM.

## ACHIEVEMENTS

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- 2023   Received Google Research Grant to present our WWW '23 paper in Austin, USA.
- 2022   Received ACM India Grant to present our KDD '22 paper in Washington DC, USA.
- 2019   Placed in the top 9% (N=8000) of the leaderboard in IIT-M Alumni Association Hackearth's machine learning challenge with an accuracy of 99.63%.
- 2018   Runners up in Facebook's Digital Hackathon for creating a social web platform and won INR 40,000.

## REFERENCES

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### Dr. Md. Shad Akhtar

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### Dr. Tanmoy Chakraborty

Associate Professor, IIT DELHI  
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