

# Aseem Srivastava

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

🔗 [as3eem.github.io](https://as3eem.github.io) @ [aseems@iiitd.ac.in](mailto:aseems@iiitd.ac.in)  
in [linkedin.com/in/as3eem](https://linkedin.com/in/as3eem) 📄 [github.com/as3eem](https://github.com/as3eem)  
📍 Research Block, IIIT Delhi, India 📞 +91 8736977760



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 improving virtual mental health assistants. I specialize in applying 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

The Web Conf 2023	<b>Response-act Guided Reinforced Dialogue Generation for Mental Health Counseling</b> <i>Aseem Srivastava, Ishan Pandey, Md. Shad Akhtar, Tanmoy Chakraborty</i> Transformer Reinforcement Learning GenerativeAI Controlled Generation
KDD 2022	<b>Counseling Summarization using Mental Health Knowledge Guided Utterance Filtering</b> <i>Aseem Srivastava, Tharun Suresh, Grin Lord, Md. Shad Akhtar, Tanmoy Chakraborty</i> LLM Knowledge Infusion Controlled Generation
ICWSM 2022	<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> Transformers Reddit Mental Health Knowledge Infusion
WSDM 2022	<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> Transformers Joint Learning
Under Review	<ul style="list-style-type: none"><li>➤ Critical Behavioral Traits Foster Peer Engagement in Online Mental Health Communities</li><li>➤ Sentiment-guided Commonsense-aware Response Generation for Mental Health Counseling</li></ul>

## 📖 ORGANIZED TUTORIALS & WORKSHOPS

ICON 2023 (Tutorial)	<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>
-------------------------	--

## ☰ SKILLS

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

## EXPERIENCE

---

### 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

## POSITION OF RESPONSIBILITY

---

- 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, AAAI, COLING, and WSDM.
- 2021 Served as Web Chair at ACSS Workshop 2021.
- 2019 Served as an organizing committee member of the International Conference on Advanced Computing and Software Engineering (ICACSE 2019).

## ACHIEVEMENTS

---

- 2023 Received Google Research Grant to present our WWW '23 paper in Austin, USA.
- 2023 Got selected and attended Google Research Week 2023 in Bengaluru, India.
- 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%.
- 2017 Runners up in Facebook's Digital Hackathon for creating an innovative web platform and won INR 40,000.
- 2000 Placed in top 10% of the leaderboard in ZS ML-Hackathon on InterviewBit with an accuracy of 89.99%.

## REFERENCES

---

### Dr. Md. Shad Akhtar

Assistant Professor, IIT DELHI  
(shad.akhtar@iiitd.ac.in)

### Dr. Tanmoy Chakraborty

Associate Professor, IIT DELHI  
(chak.tanmoy.iit@gmail.com)