

# ASEEM SRIVASTAVA

aseems@iiitd.ac.in || [as3eem@gmail.com](mailto:as3eem@gmail.com)  
+91 8736977760

[as3eem.github.io](https://github.com/as3eem)  
[github.com/as3eem](https://github.com/as3eem)

## EDUCATION

---

### IIIT Delhi

PhD Scholar, Computer Science and Engineering

**Advisors:** Dr. Md. Shad Akhtar & Dr. Tanmoy Chakraborty

**Topic:** Dialogue System for Mental Health Counseling Conversations

*August 2020 - Present*

### Kamla Nehru Institute of Technology, Sultanpur

Bachelor in Technology (BTech)

Computer Science and Engineering

*August 2016 - July 2020*

## PUBLICATIONS

---

- **As You Speak, So You Seek: Exploring Latent Signals in Peer-to-Peer Interactions for Effective Mental Health Counseling**

*Currently under review*

*Aseem Srivastava, Tanya Gupta, Md. Shad Akhtar, Tanmoy Chakraborty*

- **Response-act Guided Reinforced Dialogue Generation for Mental Health Counseling**

*Full Paper accepted at WWW '23*

*Aseem Srivastava, Ishan Pandey, Md. Shad Akhtar, Tanmoy Chakraborty*

- **Counseling Summarization using Mental Health Knowledge Guided Utterance Filtering** — *Full Paper accepted at KDD '22*

*Aseem Srivastava, Tharun Suresh, Grin Lord, Md. Shad Akhtar, Tanmoy Chakraborty*

- **A Computational Approach to Understand Mental Health from Reddit: Knowledge-aware Multitask Learning Framework** — *Full Paper accepted at ICWSM '22*

*Usha Lokala, Aseem Srivastava, Triyasha Ghosh Dastidar, Tanmoy Chakraborty, Md Shad Akhtar, Maryam Panahiazar, Amit Sheth*

- **Speaker and Time-aware Joint Contextual Learning for Dialogue-act Classification in Counselling Conversations** — *Full Paper accepted at WSDM '22*

*Ganeshan Malhotra, Abdul Waheed, Aseem Srivastava, Md. Shad Akhtar, Tanmoy Chakraborty*

## EXPERIENCE

---

### Analytics Vidhya

*Data Science Intern*

June 2019 - July 2019

*Gurgaon*

- Research and development of Machine Learning and Deep Learning models to create world's largest Data Science portal: DataMin
- Led the team for the better understanding of concepts involved in Deep Neural Network.

### Atventus India

*Web Developer Intern*

June 2017 - August 2017

*Lucknow*

- On-site internship where I worked on various projects using frameworks like Codeigniter, NodeJS along with database schema designing and EC2 server management.

## SKILLS

---

<b>Interests</b>	NLP - Dialogue Systems, Conversational AI, Deep Learning, Machine Learning
<b>Frameworks</b>	Pytorch, Jupyter Notebook, Git, AWS
<b>Web &amp; Android</b>	NodeJS, Flutter, MySQL, NoSQL
<b>Soft Skills</b>	Communication Skills, Problem Solving, Critical Thinking, Research Attitude

## PROJECTS & RESEARCH

---

### **Conversation Summary Generation - A transformer architecture**

Worked on the PEGASUS library by Google Research pre-trained on huge text corpus for summary generation. We tuned the model for AMI meeting conversation dataset to generate summary and managed to get a ROUGE score of 41 along with good semantics.

### **Few Shots Intent Detection in Conversation - BERT classification approach**

In the case of lack of data/dialogues where responses highly depend upon the intents of the user, an Intent Classifier is built using Few-Shot learning and BERT based classification that minimizes the obstacle of limited data.

### **Facebook Friend Recommendation - Social Media Link Prediction**

Worked on cold-start feature engineering problem where I created 28 new features using only follower-follower relationship. I managed to predict links with 92.4% accuracy.

### **Netflix Movie Recommendation Engine**

Built a recommendation engine on Netflix's dataset where I applied baseline algorithms along with XGBoost in stack fashion to leverage recommendation results.

## COURSES & MOOC

---

- Certified in *Data Science In Python* from University Of Michigan via Coursera
- Certified in *Text Retrieval and Search Engines* from University of Illinois via Coursera

## ACHIEVEMENTS

---

- Got selected and attended Google Research Week 2023 in Bengaluru, India.
- Runners up in Facebook's Digital Masala Hackathon for creating innovative web platform and won Rs.40,000 in 2018
- Placed in top 9% of leaderboard in IIT-M Alumni Association Hackearth's ML-challenge with more than 8000 participants along with accuracy of 99.636% on test data
- Placed in top 10% of leaderboard in ZS ML-Hackathon on InterviewBit with accuracy 89.99%

## POSITIONS OF RESPONSIBILITY

---

- Web Chair - ICON 2022, CONSTRAINT Workshop (ACL 2022), ACSS Workshop 2021
- Volunteer - KDD 2022, ACL 2022, AAAI 2021, COLING 2020
- Mozilla Campus Club, Campus Lead - [December '16 - December '17]
- Organizing Committee member of 2nd International Conference on Advanced Computing and Software Engineering (ICACSE 2019) - [February '19]