ASEEM SRIVASTAVA

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EDUCATION

IIIT Delhi *August 2020 - Present*
PhD Scholar, Computer Science and Engineering
Advisors: Dr. Md. Shad Akhtar & Dr. Tanmoy Chakraborty
Topic: Dialogue System for Mental Health Counseling Conversations

Kamla Nehru Institute of Technology, Sultanpur *August 2016 - July 2020*
Bachelor in Technology (BTech)
Computer Science and Engineering

PUBLICATIONS

- **Critical Behavioral Traits Foster Peer Engagement in Online Mental Health Communities**
  Currently under review
  Aseem Srivastava, *Tanya Gupta, Alison Cerezo, Grin Lord, Md Shad Akhtar, Tanmoy Chakraborty*

- **Sentiment-guided Commonsense-aware Response Generation for Mental Health Counseling**
  Currently under review
  Aseem Srivastava, *Gauri Naik, 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 Akthar, 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 June 2019 - July 2019
Data Science Intern *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 June 2017 - August 2017

Web Developer Intern *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

Interests	NLP - Dialogue Systems, Conversational AI, Deep Learning, Machine Learning
Frameworks	Pytorch, Jupyter Notebook, Git, AWS
Web & Android	NodeJS, Flutter, MySQL, NoSQL
Soft Skills	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 a huge text corpus for summary generation. We tuned the model for the AMI meeting conversation dataset to generate a 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 a 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-followee 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]*