Abdullah Mazhar
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A second-year PhD student at IIIT Delhi, working with Dr. Md. Shad Akhtar at FLaMe Lab, focusing on NLP/Deep Learning for Responsible AI in mental health. As an NLP researcher, I aim to advance AI systems that are not only effective but also ethically responsible, particularly in sensitive areas like mental health support.

Education

INDRAPRASTHA INSTITUTE OF INFORMATION TECHNOLOGY (IIIT DELHI), DELHI   2023 - PRESENT

PhD in Computer Science and Engineering (CSE)
Thesis : Responsible and Safety AI in Mental Health
Supervisor : Dr. Md. Shad Akhtar

INSTITUTE OF ENGINEERING AND RURAL TECHNOLOGY   2015 - 2019

B.Tech in Computer Science and Engineering (CSE) | Agg : 72.3%
Thesis : Twitter Sentiment Analysis system using Text Blob and Tweepy.

Publications

ACM WWW 2025 | **Figurative-cum-Commonsense Knowledge Infusion for Multimodal Mental Health Meme Classification**
Understanding Mental Health in Memes : We introduce AxiOM, a novel dataset designed for fine-grained anxiety symptom classification in memes. To enhance the figurative understanding of Multimodal Language Models, we propose M3H, a commonsense-enriched framework that integrates domain knowledge. Our approach surpasses competitive baselines, improving both anxiety and depression symptom identification through comprehensive quantitative and qualitative evaluations.
`Accepted-Oral`

Neurips 2025 | **Disentangling Expert Contributions : An Interpretable Approach to Language Model Behavior in Toxic Content Moderation**
`Under-Review`

KDD 2025 | **Evaluating Therapeutic Qualities : A Framework for Analyzing Mental Health Dialogue Dynamics**
`Under-Review`

Experience

PROJECT OFFICER   SEP 2022 - DEC 2023
IIT MADRAS | CHENNAI
Contributed to the development of Text-to-Speech (TTS) systems for Indian languages using Deep Learning techniques. Build a Text-to-Speech (TTS) system for Indian languages to provide technical education in rural areas, utilizing advanced speech synthesis techniques.

[ASR] [TTS]

DATA SCIENTIST   MAY 2021 - SEP 2022
BIRLASOFT LTD. | NOIDA, India
Developed an end-to-end solution to automate the insurance claim process by digitizing claim forms using neural networks and machine learning techniques. Implemented a model-driven recommendation system to assist in business decision-making for claim approvals. Enhanced customer support through Azure-based solutions, leveraging Chatbot, QnA Maker, and LUIS for seamless interaction and query resolution.

[MACHINE LEARNING] [DJANGO] [REACTJS] [AZURE AI]

SOFTWARE DEVELOPER   AUG 2020 - AUG 2021
ANALYTICS2AI | GURGAON
Developed an automated tool built on Python Django Web Framework that updates the customers on product delivery status by extracting email from their Gmail Inbox (via Gmail API) and notifies customers on Whatsapp at scheduled intervals.

[DJANGO] [REACTJS]

Projects

Bhashini 2022-2023	**Speech Models for Indian Languages(IIT Madras)** Contributed to the development of Text-to-Speech (TTS) systems for Indian languages using DeepLearning techniques. Conducted extensive experimentation and tuning of TTS models to improve their overall performance and achieve natural-sounding speech for Indian Languages. [ASR] [TTS]
Automation 2021-2022	**Insurance Automation System(Birlasoft)** *Build a Submission automation solution that automate the insurance claim process by digitizing the claim forms using neural network and machine learning technology and provides the model recommendation to take business decisions on approval process. Customer support using Azure chatbot, QnA maker and LUIS.* [Azure AI] [Django] [ReactJS]
Ezzytalk	**Analytics2AI 2020-2021** *Designed and Developed an automated tool built on Python Django Web Framework that updates the customers on product delivery status by extracting email from their Gmail Inbox (via Gmail API) and notifies customers on Whatsapp at scheduled intervals.* [Django] [ReactJS]

CERTIFICATIONS

Foundation of Data Science by PadhAI One Fourth Lab.
Microsoft Azure AI 900.
Applied Machine Learning by Applied AI.
Django Masterclass by Udemy.

AWARDS

2025	Received ACM India Grant to present our WWW '25 paper in SYDNEY, AUSTRALIA.
2025	Received Microsoft India Grant to present our WWW '25 paper in SYDNEY, AUSTRALIA.
2025	Received Google Research Grant to present our WWW '25 paper in SYDNEY, AUSTRALIA.

Skills

Interests	NLP - Dialogue Systems, Deep Learning, Machine Learning, Human Behavior, LLMs, PostTraining, RL, LoRA, PEFT
Technical	Python, PyTorch, LLMOps, Git, Azure AI
Web	Django, ReactJS, Flask, PostgreSql
Database	PostgreSQL, Sqlite, MySQL

References

Dr. Md. Shad Akhtar
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