

KESHAV SINGH

📍 Tokyo, Japan

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EDUCATION

Ph.D. in Intelligent Information Sciences (Inui-Lab) Tohoku University

Sendai, Japan

• Thesis: "Bridging the Implicit Reasoning Gap in Arguments: An Overnight Approach"

2020-2023

M.Sc. in Intelligent Information Sciences (Inui-Lab) Tohoku University

Sendai, Japan

• Thesis: "Bridging the Reasoning Gap in Arguments: Utilizing Externally Collected Warrants for Improving Evidence Detection"

2018-2020

• Final Grade: 3.8/4.0

B.Eng. in Mechanical Engineering, University Institute of Technology

Bhopal, India

• Final Grade: 7.25/10.0

2013-2017

WORK EXPERIENCE

CTW, Inc

Tokyo, Japan

NLP Research Scientist & Developer

April 2023 - Present

- Developed Gaming Customer Support chatbot for game users using Python, VectorDB & LLMs.
- Chatbot is accurate upto 95% in distinguishing between answerable and unanswerable user queries.
- Can efficiently handle > 60% user queries without human support on a daily basis.
- Saved the company \$60,000/year.

ENCORED Japan, Inc

Sendai, Japan

Deep Learning Intern

July 2021 - July 2022

- Designed and implemented time-series forecasting model with 90% accuracy for real-time prediction of electricity prices for 9 major prefectures in Japan.

SOLANETS, Ltd

Sendai, Japan

Machine Learning Intern

April 2020 - September 2020

- Implemented ML algorithms for analysis of Twitter user data to predict future viral tweet.

SKILLS

Languages

English, Hindi, Japanese (JLPT N3)

Computer Languages

Python, JavaScript, HTML5

ML/DL Toolkit

Pytorch, Huggingface, AWS, Guidance, Langchain

Frameworks & APIs

JSON, Django, FastAPI, OpenAI, VisionAI

Databases

MySQL, PostgreSQL (PGVector)

Tools

VSCode, Emacs, Grafana, Git

HONORS

MEXT Scholarship

Research scholarship by the Government of Japan for pursuing M.Sc. & Ph.D.

MP-PET Scholarship

Merit-based student scholarship from the Government of MP (India) for pursuing B.Eng.

Stock Trading

3rd rank, Virtual Stock Trading Championship by Reliance, India

SCHOLASTIC ACHIEVEMENTS

HULT Prize, Tohoku University

Logistics and Team Coordinator

Sendai, Japan

January 2021

- Successfully organized HULT Prize, one of the most prestigious start-up awards co-partnered by the UN.

International Development Youth Forum

Representative, India

Tokyo, Japan

April 2016

- Envisaged and proposed solutions to problems faced by Batik industry in Indonesia.

Agribida, AIESEC

Business Development Intern

Davao, Philippines

August 2015

- Executed water conservation project in underdeveloped areas with the Davao Water Department.

RESEARCH PUBLICATIONS (PEER REVIEWED)

IRAC: A Domain-specific Annotated Corpus of Implicit Reasoning in Arguments

• Keshav Singh, Naoya Inoue, Farjana Sultana Mim, Shoichi Naito and Kentaro Inui
*In Proceedings of the 13th Conference on Language Resources and Evaluation (LREC 2022),
pages 4674-4683 Marseille, June 2022*

Marseille, France

LREC

June 2022

Exploring Methodologies for Collecting High-Quality Implicit Reasoning in Arguments

• Keshav Singh, Farjana Sultana Mim, Naoya Inoue, Shoichi Naitoh and Kentaro Inui.
*In Proceedings of the 8th Workshop on Argument Mining, pages 57-66 Punta Cana,
Dominican Republic, November 2021.*

Punta Cana, DR

ArgMining

November 2021

Annotating Implicit Reasoning in Arguments with Causal Links

• Keshav Singh, Naoya Inoue, Farjana Sultana Mim, Shoichi Naitoh and Kentaro Inui.
Argumentation Knowledge Graphs, October 2021 (Non-archival)

Online

October 2021

Improving Evidence detection by leveraging Warrants

• Keshav Singh, Paul Reisert, Naoya Inoue, Pride Kavumba and Kentaro Inui.
*In Proceedings of the Second Workshop on Fact Extraction and VERification (FEVER)
pages 57-62 Hong Kong, November 3, 2019.*

Hong Kong

FEVER

November 2019