KESHAV SINGH

📍 Tokyo, Japan

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EDUCATION

Ph.D. in Intelligent Information Sciences, Tohoku University　　　　　**Sendai, Japan**
- *Thesis: "Bridging the Implicit Reasoning Gap in Arguments: An Overnight Approach"*　*2020-2023*

M.Sc. in Intelligent Information Sciences, Tohoku University　　　　　**Sendai, Japan**
- *Thesis: "Bridging the Reasoning Gap in Arguments: Utilizing Externally Collected Warrants*　*2018-2020*
for Improving Evidence Detection"
- 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