

# VIVEK TRIPATHI

## ACADEMIC PROFILE

Degree/Certificate		Institution				Percentage/CGPA	Year
PhD		Humanistic Studies IIT (BHU), Varanasi				10.00	2025
Sem I	Sem II	Sem III	Sem IV	Sem V	Sem VI	Sem VII	Sem VIII
10.00	10.00	10.00	10.00	10.00	10.00	10.00	-
Geo-Informatics		IIT Bombay				8.92	2015
Engineering (Agri)		AAU, Gujarat				8.52	2013
CBSE (XII)		DAV School				78.00	2008
CBSE (X)		DAV School				84.80	2006

PhD in Mathematical Linguistics, HSS, IIT BHU - PhD focusing on the 'Structural analysis of Hindi using formal grammar'. My research journey encompassed several projects, including developing logical fragments of Hindi (L1H, L2H, L3H, and L4H) and creating the THT Parser (a Hindi Syntax Tree Analyzer). I've published 2 emerging SCI papers (2 others are submitted) and 1 book chapter (Publisher: LINCOM, Europa), and I am a reviewer for 2 international journals. My research approach has been inter-disciplinary (selected topics of Maths (Discreet, Grammars), Language (Indian languages) and Programming (Python, Web etc).

## SKILLS

Linguistics- Syntax, Semantics, Argument structure, Computer-processable Grammar Fragments, Mathematical Linguistics Hindi Grammar, Network and Collaboration.

## WORK EXPERIENCE

1. Worked in Startups such as AgriEra.com and Mipaz.com [May 18- Jan 20]
2. Project Research Engineer, IIT Bombay [Jan 17 - April 18]
3. Project Research Engineer, IIT Bombay [July 15 - March 16]

## INTERNSHIP/TRAINING

Consultant Editor - Hindi, Oxford University Press, Delhi (May 2023 – Dec 2023)

- Provide translation for the senses, IPA, cross-references, and derivatives of a new revised entries for the dictionary.
- Check the cross references and change the formatting of the cross-references to align with the previous editions.
- Follow the IPA transcription to develop pronunciation methods for Hindi speakers.

## PROJECTS

1. Development of Logical Fragments of Hindi (L1H, L2H, L3H and L4H).
2. Development of a Hindi Syntax Tree Analyzer (THT Parser).
3. Vaidika: Portal for Sanskrit Text Analysis.
4. Development of Syntactic Models of Judgment in Hindi Linguistics.

## CERTIFIED COURSES

1. Applied Linguistics - Syntax and Semantics of a Language
2. Natural Language Processing: Machine Learning NLP in Python
3. Mathematics for Machine Learning Specialization- Linear Algebra, Calculus and Discreet (Some Topics)
4. Introduction to Python and Digital Humanities

## PUBLICATIONS

1. Tripathi, V., & Rathod, D. (2024). Semantic model for fragment of Hindi (Part 1). Rupkatha Journal, 16(1). <https://doi.org/10.21659/rupkatha.v16n1>
2. Tripathi, V., & Rathod, D. (2024). Semantic model for fragment of Hindi (Part 2). Rupkatha Journal, 16(2). <https://doi.org/10.21659/rupkatha.v16n2.02>
3. Tripathi, V. (2024). Large Language Models: A technological approach for teaching Hindi. In G. Sharma & S. Bhatt (Eds.), Advances in Hindi language teaching: Historical and methodological dimensions (pp. 69-114). Munich: LINCOM.
4. Tripathi, V. (2024). Formal Models in Language Learning: A Semantic Approach for Vocabulary [Submitted]

## HONOURS AND ACHIEVEMENTS

### Linguistics:

- Hindi Language Champion | Oxford University Press
- Student Innovation Award - for AI Hindi Dictionary | IGNOU
- Best Technical Research Paper Award | Conference organised by IIT Jodhpur and IIT Indore (Latest)

### Business/Startups:

- Mipaz - Top 3 in All India B-Plan | Interior Designing theme
- Dripi - Top 2 in All India B-Plan | Irrigation Electronics theme
- AgriEra - Top 10 in Asia's biggest B-Plan | EdTech theme

### Academics:

- University Gold Medal for securing 1st position in Bachelors
- Top 10 AIR in All India Exam (GATE) and 53rd AIR in ICAR- JRF Scholar

### Fellowships:

- DAAD Fellowship | MTech Project in Germany
- KVPY Fellowship | Awarded for Summer Research Project
- ICAR Fellowship | Awarded UG Fellowship for Bachelor

## EXTRA-CURRICULAR ACTIVITIES

### Workshops

1. Contemporary Research Methods in Linguistics and Literature: Sampling and Analytical Methods of Scientific Perspective - 7 Days Online Faculty Development Program, Department of Linguistics, Bharathiar University [2020]
2. Film Studies: Pedagogy and Research Methods – 6 Days Workshop, Dept. of Humanistic Studies, IIT(BHU) [2023]
3. Various Dimensions of Sanskrit and Computer Science – 2 days National Workshop, BHU [2024]
4. LaTeX Workshop- Writing Articles, Thesis and Presentation - 1 day Workshop, IIT (BHU) [2025]

### Invited Talk/Posters/Project

1. Poster presentation on Research and Innovation Day (RID - 2024), IIT (BHU), Varanasi. [Sep, 24]
2. Paper presentation in the National Conference on Indian Knowledge System, IKS Center IIT(BHU) [Mar, 23]
3. Authoring a book 'Goswami' in collaboration with Rupkatha Publications as a contract-project (6 months). [Ongoing]
4. Wrote 2 books to help non-native Hindi learners to practice script and learn conversation through self-learn approach, named as 'Hindi Script Practice Book' (Published) and 'Travel Hindi' (Unpublished) respectively. [Ongoing]

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