

STTP: Hands-on with NLP from Intelligence to Text

The Department of **Computer Science and Engineering** organised a **STTP** titled **Hands-on with NLP from Intelligence to Text** on **September 26th and 27th** at **10.00 AM** in **Rajalakshmi Seminar Hall**.

The STTP "Hands-On with NLP: From Text to Intelligence" aimed to provide participants with a solid foundation in Natural Language Processing (NLP), covering both basic and advanced concepts like tokenisation, text preprocessing, sentiment analysis, and topic modeling. It focused on hands-on training using Python and libraries such as spaCy, NLTK, and Hugging Face, bridging theory with real-world applications in domains like finance, healthcare, and customer experience. The event also encouraged interactive learning, enabling participants to build practical NLP models and gain skills to transform raw text into actionable intelligence.

Objectives of the Event

- To introduce participants to fundamental concepts and techniques in Natural Language Processing (NLP).
- To provide hands-on training on key NLP tools and libraries such as spaCy, NLTK, and Hugging Face.
- To demonstrate real-world applications of NLP in diverse domains such as finance, healthcare, and customer experience.
- To equip participants with the skills to build and deploy NLP models, transforming raw text into actionable intelligence.
- To encourage interactive learning through coding sessions and collaborative exercises.

Event Overview

The session commenced at 10.00 AM with a welcome address by Ms. Divya, followed by an engaging session by **Mr Nahar Singh, Head of Data and MLOps Engineering, Continental**. The presentation covered key areas such as tokenisation, text preprocessing, sentiment analysis, and topic modeling, providing deep insights into the subject matter. Participants showed keen interest, with active participation during interactive segments and Q&A rounds.

An Autonomous Institute
Approved by AICTE, New Delhi
Affiliated to VTU, Belagavi
Recognized by UGC under 2(f) & 12(B)
Accredited by NBA & NAAC

Day	Time	Session Details
Friday, September 26, 2025	10 - 10.15 am	Welcome Address
	10.15 - 2.30 pm	Introduction, Hands-on session 1
Saturday, September 27, 2025	10.00 am - 12.30 pm	Hands-on session 2
	1.45 - 3.00 pm	Hackathon

Table 1: Schedule of the Event

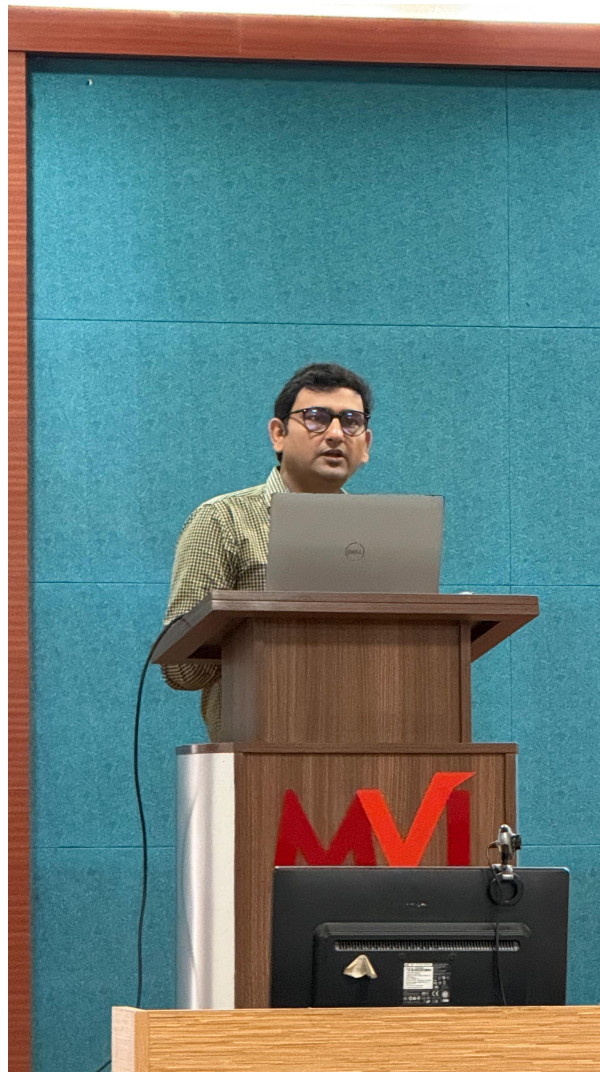


Figure 1: Day 1 - Introduction

An Autonomous Institute
Approved by AICTE, New Delhi
Affiliated to VTU, Belagavi
Recognized by UGC under 2(f) & 12(B)
Accredited by NBA & NAAC



Figure 2: Day 1 - Hands-on session (left) and Day 2 - Hands-on session (right)

An Autonomous Institute
Approved by AICTE, New Delhi
Affiliated to VTU, Belagavi
Recognized by UGC under 2(f) & 12(B)
Accredited by NBA & NAAC

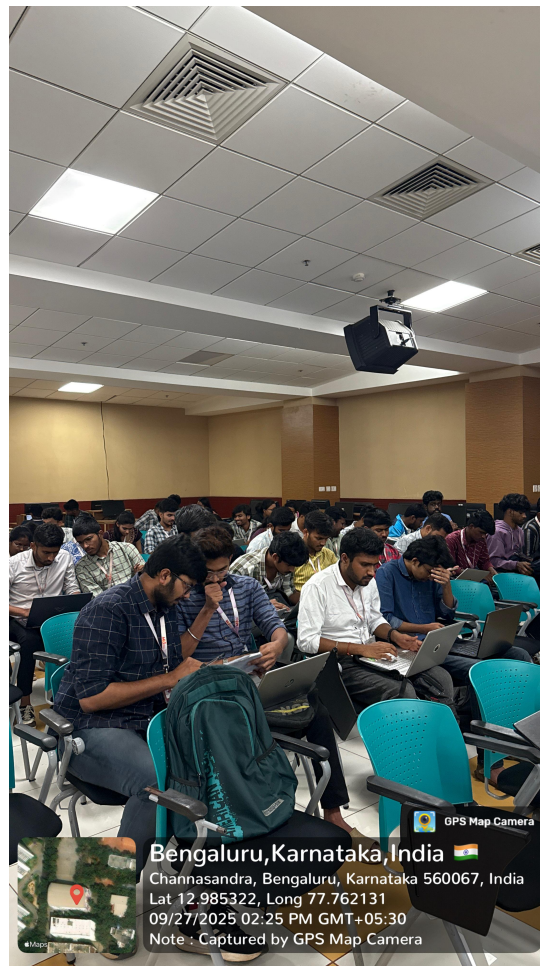


Figure 3: Day 2 - Hackathon

Outcomes and Impact

- Enhanced participants' skill sets, preparing them for advanced research and projects in AI and NLP.
- Promoted industry readiness by introducing real-world applications in health-care, finance, and customer experience.
- Strengthened the academic-industry connection through expert interaction with Mr. Nahar Singh, Head of Data and MLOps Engineering at Continental.
- Inspired participants to pursue further learning and innovation in the field of Natural Language Processing.

Conclusions

The STTP "Hands-On with NLP: From Text to Intelligence" equipped participants with a comprehensive understanding of Natural Language Processing (NLP), including essential topics like tokenisation, text preprocessing, sentiment analysis, and topic modeling. Through interactive, hands-on sessions using Python and popular libraries such as spaCy, NLTK, and Hugging Face, attendees developed practical skills in building NLP models. The program seamlessly connected theoretical concepts with real-world applications across finance, healthcare, and customer experience, enabling participants to convert raw text into actionable insights.

Report by: Prof. Helan Mariyam Aipe

Faculty, Department of Computer Science and Engineering, MVJ College of Engineering