



GOVERNMENT COLLEGE OF ENGINEERING KALAHANDI



3 Days Workshop on

Uplifting Odia through the Lens of Artificial Intelligence and Data Science

Emerging Field: Artificial Intelligence and Data Science

In

Odia Language

Scheduled Dates: 17 -September-2025 to 19-September-2025

Workshop

Day	Morning Session		Lunch Break 1PM-2PM	Afternoon Session	
1	Session-I (10:00AM-11:00AM) Registration & Inauguration Program of AICTE-VAANI-2025 Workshop	Session-II (11:00AM-01:00PM) Dr. Rakesh Chandra Balabantaray Associate Professor and Dean(Academics) Dept. of Computer Science & Engineering IIIT Bhubaneswar Topic: Hindi-Odia Machine Translation System.		Session-III (02 PM-03:30PM) Dr. Rakesh Chandra Balabantaray Associate Professor Dept. of Computer Science & Engineering IIIT Bhubaneswar Hands-on Practice Machine Translation Hindi to Odia language Topics to be covered <ul style="list-style-type: none">• Tokenization• Stemming• Cleaning• Model Selection etc	Session-IV (03:30 PM-5:00PM) Dr. Mohit Agrawal <i>Senior Lead Engineer at Qualcomm AI</i> Topic: Continuous Odia Speech Recognition System using Hidden Markov Model

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2	<p>Session-V</p> <p>(10:00AM-11:30AM)</p> <p>Dr. Prabhat Kumar Santi Senior Data Scientist, TCS, Bhubaneswar Analysis and Design of Odia Morphological Analyser</p>	<p>Session-VI</p> <p>(11:30AM-01:00PM)</p> <p>Dr Suman Bhattacharya Product Evangelist @ TCS SMB iON Concatenative based Odia Speech Synthesis: A Practical Guide</p>		<p>Session-VII</p> <p>(02 PM-03:30PM)</p> <p>Dr. Prabhat Kumar Santi Senior Data Scientist, TCS, Bhubaneswar Hands-on Practice Analysis and Design of Odia Morphological Analyser Topic to be covered:</p> <ul style="list-style-type: none"> • Part of Speech (POS) • Root/Stem • Inflectional forms etc. 	<p>Session-VIII</p> <p>(03:30 PM-5:00PM)</p> <p>Dr Suman Bhattacharya Product Evangelist @ TCS SMB iON Hands-on Practice on Odia Speech Synthesis</p> <p>Topics to be Covered:</p> <ul style="list-style-type: none"> • Odia Diphone • Odia Speech Diphone Database • Odia Text Analysis • Prosodic information
3	<p>Session-IX (10:00AM-11:30AM)</p> <p>Dr. Mohit Agrawal Senior Lead Engineer at Qualcomm AI</p> <p>Odia Handwritten Alphabet and Numeral Recognition</p>	<p>Session-X (11:30AM-01:00PM)</p> <p>Dr. Basanta Kumar Swain Assistant Professor Government College of Engineering, Kalahandi.</p> <p>Hands-on Practice: A practical approach for development of Odia continuous speech recognition engine</p> <ul style="list-style-type: none"> • Odia Phoneme Dictionary 		<p>Session-XI (02 PM-04:00PM)</p> <p>Mr. Rakesh Gain Sr. Software Engineer Spotline Inc.</p> <p>Hands-on Practice Odia Handwritten Alphabet and Numeral Recognition</p> <ul style="list-style-type: none"> • Binarization • Normalization • Background Noise Removal • Segmentation 	<p>Session-XII (04:00 PM-5:00PM)</p> <p>Valedictory Session and Certificate Distribution Ceremony</p>

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		<ul style="list-style-type: none">• Odia Transcrip tion Script• Odia speech corpora creation• Bakis Model HMM			
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