
CONTACT	Metsalinnunreitti 2, J 98, Espoo 02660	+358 7465490230
INFORMATION	asutosh.hota@aalto.fi	asutosh7hota.github.io

EDUCATION	Master's Programme in CCIS — Human-Computer Interaction School of Science, Aalto University <i>Espoo, Finland</i> Expected 2021 • Full Tuition fee waiver
-----------	--

College of Engineering and Technology June 2018
Bhubaneswar, India

- Top 10% of the class with a CGPA of 8.28
- Awarded CET Merit Scholarship

Computer Vision Assisted Autonomous Weeding for Cabbage
Supervisor: Mr. Nijagun Hiremath, DGM, Escorts Ltd

- Lead the development team to implement a computer vision assisted model to classify weed and cabbages using Tensorflow.
- Designed and developed a table-top model to simulate the autonomous weeding process.
- Seed funded 2000 USD from Escorts Group to facilitate research.

Shallow parser based Hindi to Odia Machine Translation System
Supervisor: Prof. Jyotirmayee Routaray, Dept. of CSE, CET, Bhubaneswar

- Developed a robust Hindi to Odia machine translation system to facilitate easy understanding of the national language and related literature by the regional population using Apertium, open source platform.

Designing of a Sign Language Interface for Single Handed Communications
Supervisor: Dr. Debi Prosad Dogra, School of Electrical Sciences, IIT, Bhubaneswar

- 1 of 3

	<ul style="list-style-type: none"> • A differential feature selection technique and hierarchical classification model was proposed by the work which gave optimum accuracies for the single handed communications. • Comparison and performance analysis of different supervised classification algorithms like SVM, KNN, SGD etc and techniques to improve them was proposed.
REFEREED PUBLICATIONS	<ol style="list-style-type: none"> 1. A. Hota, R. Agarwal, S. S. Gochhayat, S. Mahapatra, "Performance Analysis of Supervised Classification Models on Gesture Recognition of Single Handed Alphabet System of Indian Sign Language", <i>International Journal of Management and Applied Science (IJMAS)</i>, 2017, pp. 92-97, Volume-4, Issue-3 2. A. Hota, D. Pramanik, L. P. Lenka, R. Agarwal, S. S. Gochhayat, S. Mahapatra, and S. R. Choudhury "Gesture to Speech using Leap Motion Controller: Communication Model for Speech and Hearing Impaired.", <i>International Conference on Computing for Sustainable Global Development (INDIACom)</i>, IEEE Conference ID: 40353 (2017) [Accepted]. 3. J. Rautaray, A. Hota and S. S. Gochhayat, "A shallow parser based Hindi to Odia Machine Translation System", <i>International Conference on Computational Intelligence in Data Mining (ICCIDM)</i>, In: Springer Advances in Intelligent Systems and Computing (AISC) (2017) [Accepted] 4. A. Hota, S. S. Gochhayat, M. Nayak and M. Panda, "Cryptographic System assisted Secure Cloud Storage Systems.", <i>International Journal OF Advanced Research In Science, Engineering And Technology</i>, Vol. 4, Issue 12, December, 2017.
SUBMITTED JOURNAL PUBLICATIONS	<ol style="list-style-type: none"> 1. A. Hota, R. Agarwal, S. S. Gochhayat, S. Mahapatra, and D. P. Dogra, "Designing of a Sign Language Interface for Single Handed Communications", <i>ACM Transactions on Computer-Human Interaction</i> [Under Review]
MANUSCRIPTS IN PREPARATION	<ol style="list-style-type: none"> 1. P. K. Patra, A. Hota, S. S. Gochhayat, R. Agarwal, S. Mahapatra, "Computer Vision Assisted Automated Weeding System for Agro-machineries" 2. S. S. Gochhayat, A. Hota and J. Routaray "A Review of Precision Based Weeding Technologies in Agriculture"
AWARDS	<p>IEEE Bhubaneswar Subsection Student's Colloquium Dec 2016</p> <ul style="list-style-type: none"> • Best paper award among 32 papers from participants from colleges all over the state. • Selected for Collaboration with IIT, Bhubaneswar. <p>ISTE Silicon Institute of Technology Chapter 2016</p> <ul style="list-style-type: none"> • Best paper award among 40 papers from participants from colleges all over the state. <p>CODE N COUNTER 2.0 by NAGARRO Aug 2017</p> <ul style="list-style-type: none"> • Runners-up among 80 teams all over India and received a cash prize of 1000 USD <p>CSI Discover Thinking Online Programming Contest 2016</p> <ul style="list-style-type: none"> • Placed among top 60 programmers in the National Level Hackathon
WORK EXPERIENCE	<p>Winterfell Web Services — Co-founder Apr 2016</p> <ul style="list-style-type: none"> • Incubated under the Technical Society of the College of Engineering and Technology, Bhubaneswar, to provide web services to startups and corporate firms in the state. • Generated a revenue of 4000 USD in 14 months.

UNIVERSITY SERVICE	<p>Technical Secretary, Student's Forum, CET, Bhubaneswar Aug 2017 - Present</p> <ul style="list-style-type: none"> • Assist with planning of technical events, competitions and conferences in the college and organize Perception, Annual Techno-Management fest of the college. • Review the applications for funding of technical endeavors by students. • Improve industrial collaborations with the technical clubs of the college. <p>Counselling Service — Zairza Technical Society Jun 2015 - Present</p> <ul style="list-style-type: none"> • Conducted Introductory classes for freshmen/sophomore year students on python, computer vision and basic algebra. • Organized sessions to promote emerging practices and technologies in computer science.
COMMUNITY SERVICE	<p>Lead Volunteer — NSS, CET, Bhubaneswar Aug 2015 - Present</p> <ul style="list-style-type: none"> • Assisted the college's flood relief team and disaster management squad under the National Service Scheme during <i>Cyclone Hudhud</i> which affected coastal regions of Odisha. • Organized blood donation camps and several awareness programs in underprivileged areas of Bhubaneswar. <p>Volunteer — Google Developer Group, Bhubaneswar Sep 2015 - Present</p> <ul style="list-style-type: none"> • Organized several workshops in the field of web-development, UI/UX design and basics of machine learning for the students of different colleges in the state. • Represented the organization as a speaker to present projects and innovations undertaken by the community members.
PROJECTS	<p>PREGAINFO — Intelligent Recommendation regarding Pregnancy</p> <ul style="list-style-type: none"> • A web-based personalized recommendation system for pregnant women to guide them through routines of continuous check-ups and proper diet suggestions. • Customised reminders and recommendation from the date of pregnancy <p>CLEAN-CLAN — Gamification app for Clean India Campaign</p> <ul style="list-style-type: none"> • Designed the UI/UX of the web based social awareness application. • Presented at Technovanza Hackathon, VJTI, Mumbai and awarded with a special mention for innovation.
SKILLS AND COMMUNICATION	<p>Technical Skills</p> <ul style="list-style-type: none"> • Programming Languages: <i>C++, Python3, JavaScript</i> • Work Tools and Frameworks: <i>Tensorflow, Scikit-Learn, L^AT_EX , Excel, Git</i> <p>Communication Skills</p> <ul style="list-style-type: none"> • Proficient in English, Hindi and Odia (Native). • Full Working Proficiency: <i>English (TOEFL Score = 99)</i>
RELEVANT COURSES	Robotics, Artificial Intelligence, Introduction to Data Structures, Digital Image Processing, Linear Algebra, Discrete Mathematics and Design and Analysis of Algorithms.