ASUTOSH HOTA

Data science and machine learning enthusiast with an experience of over 1.5 years

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Experience

RESEARCH INTERNSHIP WITH ESCORTS – 2017, MAY - PRESENT
Received seed funding for the proposed model of an autonomous weeder in collaboration with the research team of ESCORTS Limited. The system would use convolutional neural networks for achieving an efficient image classification system that would classify plants from unwanted weed.

RESEARCH GRANT, TEQIP-II – 2016, MAY - 2017, JANUARY
The project envisaged the idea of establishing a communication model for the hearing and speech impaired individuals in close collaboration with School of Electrical Sciences, IIT, Bhubaneswar.

FREELANCER AT WINTERFELL WEB SERVICES – 2016, MARCH - PRESENT
Front End developer and development manager .

Group Projects

Doot 1.0, Communication model for hearing and speech impaired individual Analysed the diverse data of hand gestures from leap motion controller and performance analysis of the various supervised classification models.
Clean_Clan- Gamification app for Swach Bharat Abhiyan Campaign for TCS, Hackathon Technovanza
Designed the UI and presented the project at Technovanza Hackathon VJTI, Mumbai, awarded with a special mention for innovation.

Publications

- **Supervised classification based sign language recognition system for single handed alphabet system of Indian Sign Language Asutosh Hota**, Sai Sankar, Rishav Agarwal ,Sandeep Mahapatra and D. P. Dogra, submitted to IEEE Transactions on Multimedia.
- **Performance Analysis of Supervised Classification Models on Gesture Recognition of Single Handed Alphabet System of Indian Sign Language "** , **Asutosh Hota** et. al, International Journal of Management and Applied Science (IJMAS) , pp. 92-97, Volume-4,Issue-3
- **A shallow parser based Hindi to Odia Machine Translation System,** Jyotirmayee Rautaray, **Asutosh Hota**, Sai Sankar Gochhayat, Springer Advances in Intelligent Systems and Computing (AISC) Series, 2017
- **Gesture to Speech Using Leap Motion Controller, Communication Model for Speech and Hearing Impaired, Asutosh Hota,** et. al, INDIACom-2017; IEEE Conference ID: 40353 2017 4th International Conference on "Computing for Sustainable Global Development", 01st - 03rd March, 2017.
- **Secure Cloud Storage system**, Dr. Subasish Mohapatra, **Asutosh Hota,** (pre-publish), accepted at International Conference on Innovation in Electronics and Communication Engineering (ICIECE),2017 to be published in Innovations in Electronics and Communication Engineering, Springer series, 2018.
- **Doot 1.0 communication model for hearing and speech impaired individuals, Asutosh Hota** et. al. Symposium presentation, IIT BBSR, IEEE Students Colloquium, Best paper award, 2016.

Education

B. TECH, COMPUTER SCIENCE AND ENGINEERING
Expected to graduate in 2018.
Secured a CGPA of 8.38 till now and have been diligently active in co- curricular.
CBSE 10+2 HIGHER SECONDARY EXAMINATION
Secured 94.4% with distinction.
CBSE SECONDARY SCHOOL EXAMINATION
Secured 10 CGPA.

Side Projects

Tensorflow_for_beginners:
- Implementation of neural networks in python without any library
- Implementation of MNIST dataset using linear and CNN model
- Implementing CIFAR 10 dataset using tensor flow
- Implementing style transfer for artistic images

Courses

- Machine learning, Andrew Ng, CS229
- Computer Vision, CS231n
- DataCamp Python Data Scientist Track - Present

Skills

- **Programming Languages**: C++, Python3
- **Web Development**: JavaScript, HTML, CSS
- **Web Libraries:** Express
- **Work Tools:** LateX, Excel, Git

References

- Dr. Debi Prasad Dogra, School of Electrical Sciences, IIT, Bhubaneswar, dpdogra@iitbbs.ac.in
- Dr. Subasish Mohapatra, HOD, Dept. of CSE, CET, BBSR, smohapatra@cet.edu.in
- Mr. Nijagun Hiremath, DGM, Escorts LTD, EMAIL: nijagun.hiremath@escorts.co.in

Volunteer/ Office position

- **Technical Secretary**, College of Engineering and Technology, BBSR.
- **Lead Volunteer**, GDG, BBSR
- **Core Member**, Zairza Technical Society, CET.
- **Editor**, WireBytes, Annual Newsletter, 2017

Achievements

- Nagaroo Code-N-Counter-2.0, **Runners up**, 2017.
- Placed among **top 60 nationally** in 4th Computer Society of India Discover
- **First Prize** in Paper Presentation at IEEE Students Colloquium 2016 at IIT
- **First Prize** in Paper Presentation at ISTE Silicon Institute of Technology