

Yajnavalkya Bandyopadhyay

Master of Technology(Remote Sensing)
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Research Interests

- Image Processing, Spatial Data Analysis, Drone Photography Analysis, Time Series Analysis of GIS Data, Machine Learning

Academic Profile

Degree	Institute	Year
M.Tech(Remote Sensing)	Birla Institute of Technology, Mesra	2020-Ongoing
B.Tech(Civil Engineering)	Techno India College of Technology, Kolkata	2014-2018
AISSCE(+2, Science)	The Assembly of God Church School, Purulia	2014

Professional Profile

Firm	Role	Duration
Agnishala Makerlabs	Chief Software Architect	Feb 2020 to Jul 2020
Rigvaimaniki Technologies Pvt. Ltd	Junior Software Developer	Aug 2019 to Jan 2020
Malaviya National Institute of Technology	Summer Research Intern	July 2017 to Aug 2017
Friends of Kolkata's Elderly	Web Developer Intern	Dec 2016 to April 2017

Technical Skills

- Computer Languages – C, Java, Python, Javascript
- Libraries – Scikit Learn, Tensorflow, Seaborn, OpenCV
- Softwares – QGIS, Autodesk AutoCAD, Rhinoceros 3D, STAAD Pro, MATLAB

Journal Publications

- Yajnavalkya Bandyopadhyay "**Glass Defect Detection and Sorting Using Computational Image Processing**", International Journal of Emerging Technologies and Innovative Research (www.jetir.org), ISSN:2349-5162, Vol.2, Issue 10, page no.73-75, October-2015
- Yajnavalkya Bandyopadhyay "**Determination of Physical Quality of Rice using Image Processing**", International Journal of Emerging Technologies and Innovative Research (www.jetir.org), ISSN:2349-5162, Vol.3, Issue 8, page no.70-72, August-2016

Conference Publications

- Bandyopadhyay, Yajnavalkya and Roy, Sandip and Chatterjee, Siddhartha, "**Predicting Stock Market Prices Using Deep Learning by Tensor Flow**" (February 15, 2019). Lecture Notes in Networks and Systems (LNSS, volume - 41), ISBN - 978-981-13-3122-0, Springer,

2019

Conference – ETES 2018 at Asansol Engineering College, 2018

- Yajnavalkya Bandyopadhyay, Barun Das, “**Comparative Study of an Integrated Supply Chain by NSGA-II and ACO**”
Conference - 3rd Regional Science & Technology Congress, 2018
- Yajnavalkya Bandyopadhyay, Sanat Kr. Mahato, “**An application of Pentagonal Fuzzy Numbers in Reliability Redundancy Allocation Problem using Genetic Algorithm**”
Conference - 3rd Regional Science & Technology Congress, 2018

Research Projects

- **PySteel: A Python Library for Steel Section Designing**
(Guide – Prof. Somnath Majumder, Assistant Professor, TICT, Kolkata, Sept,2017-May,2018)

Designing and Development of a complete Python Package for Designing Plate Girder and Gantry Girder economical and efficient section as per IS800-2007 Code Provision.
Source code - <https://github.com/yajrab/pysteel>

- **Eagle Tools for Infrastructure Accessibility Analysis**
(Guide – Dr. Pooja Nigam, Assistant Professor, MNIT, Jaipur, July-August,2017)

The project targets creation of Infrastructure Accessibility Maps using Urban Street Network Maps and places information from OpenStreetMap and Google Places API, and components written for Grasshopper 3D for McNeel Inc. Rhinoceros 3D .

- **Stock Market Prediction System using Hadoop**
(Guide – Prof. Nizamuddin Laskar, Assistant Professor, TICT, Kolkata, Sept-Nov,2016)

To develop a system for realtime collection of Stock Market Data using Selenium web scrapping and using hadoop and TensorFlow to Predict future prices

Achievements

- **International Informatics Olympiad 2010**, Class Topper(Gold Medalist)
- **International Informatics Olympiad 2005**, Class Topper(Gold Medalist)

References

- **Dr. Pooja Nigam**
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Malaviya National Institute of Technology
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- **Mr. Sangeeth S Pillai**
Assistant Professor
Malaviya National Institute of Technology
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