

Sandipan Majhi

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Github Profile: <https://github.com/SandipanMajhi>

Education

2017-2021 Bachelor of Engineering in Computer Science and Engineering
8.51 CGPA, First Class Honours, Jadavpur University, Kolkata

Work Experience

2021 Associate Salesforce Developer
Technology Consultant, Pricewaterhouse Coopers LLP

Achievements

2021 Top 6 nationally in original paper idea presentation at SGIML, IEEE GRSS Kolkata Chapter
2021 2nd position nationally in Mini-olympiad, IEEE GRSS Kolkata Chapter
2021 3rd position nationally Remote Sensing Talkathon, IEEE GRSS Kolkata Chapter
2020 Special mention in Streamlit Weekly Roundup
2020 Top 5 in Nationals - Ednita NGO National Policy Simulation Challenge
2017 Ranked 650 (99.78 percentile) in West Bengal Engineering Joint Entrance Examination
2013 Selected in Vijyoshi Science Camp, Indian Institute of Science, Bangalore
2013 Young Scientist KVPY (Kishore Vaigyanik Protsahana Yojana) scholarship, Govt of India
2013 Ranked 6318 (99.48 percentile) nationally and 223 in State in JEE Mains Examination
2013 State rank - 17, District rank - 3, School topper, Higher Secondary Examination
2011 Dr B.R Ambedhkar Medha Puraskar prize for General Proficiency, Govt of West Bengal

Publications

2019 Ghosh S., Bhattacharya R., **Majhi S.**, Bhowmik S., Malakar S., Sarkar R. (2019)
Textual Content Retrieval from Filled-in Form Images. Springer, Singapore.
https://doi.org/10.1007/978-981-13-9361-7_3
2016 Baliga, C., **Majhi, S.**, Mondal, K., Bhattacharjee, A., Vijayraghavan, K.,
and Varadarajan, R., (2016) Rational Elicitation of cold-sensitive phenotypes,
Proc Natl Acad Sci U S A 113, E2506-2515 (PNAS)
<https://doi.org/10.1073/pnas.1604190113>

Research Experience

2021-now Student Researcher, Jadavpur University, Kolkata
Activity Recognition and Video Understanding
Advisor: Dr Susmita Ghosh, Professor, Jadavpur University, Kolkata
Rahul Roy, Asst. Professor, GITAM University, Hyderabad
2020-2021 Undergraduate Student Researcher, Jadavpur University, Kolkata
Multi-Attention Based Sentiment Analysis Using Learner Decoder
Advisor: Dr Susmita Ghosh, Professor, Jadavpur University, Kolkata
Rahul Roy, Asst. Professor, GITAM University, Hyderabad

- Novel Hierarchical Attention algorithm for Sentiment Analysis using LSTM.
- Successfully able to capture attention to relevant words and phrases.
- Achieved greater accuracy than VDCNN, SVD CNN, CharCNN, Char-RCNN, LEAM, SWEM-hier, FastText, Hash Embeddings etc.
- Final year Grade: S (Outstanding), Publication in manuscript phase.

2017-2018 Undergraduate Student Researcher, Jadavpur University, Kolkata
Textual Content Retrieval from Filled-in Form Images

Advisor: Dr Ram Sarkar, Associate Professor, Jadavpur University, Kolkata

- Higher accuracy in separating handwritten and printed Bengali scripts in document images.
- Used Random Forest classifier to achieve the objective of classification.
- Novel feature design on relative pixel position on contours.
- Publication in Springer, 2019. See publications section.
- <https://github.com/SandipanMajhi/Textual-Content-Retrieval-from-Filled-in-Form-images>

2014-2016 Student Researcher, Molecular Biophysics Unit, Indian Institute of Science, Bangalore

Rational elicitation of cold-sensitive phenotypes

Advisor: Dr Raghavan Varadarajan, Professor, Indian Institute of Science

- The phenotypic screening was carried out by growing the yeast cells at different temperatures and identifying mutants showing growth defects at low temperatures.
- Publication in PNAS, 2016.

Projects

2021-now

Autoencoders for the association between sounds and images

2020

Tracking Daily coronavirus cases in India

WebApp: <https://covid-india-updates.herokuapp.com/>

Code Link: <https://github.com/SandipanMajhi/Covid-Streamlit>

2020

Feature Engineering For Higher Accuracy in Iris Dataset

Code: <https://github.com/SandipanMajhi/Iris-Machine-Learning>

Skills: Hypothesis testing, Machine learning, R, Python.

2019

Mobile Sensor Tracking

Code Link: <https://github.com/SandipanMajhi/Mobile-Sensor-Data-Collector>

Skills: Java, Android, Adobe XD for UI Design.

Internships

2020

Zomato Review Analysis and Web Application using Flask

The Smart Bridge Educational Services Pvt Ltd.

Advisor: Pradeepthi Duggaraju, Senior AI Developer

- Best project among 34 teams.
- Skills: Tensorflow, Flask, Numpy, Python, Pandas, HTML, CSS and NLP

2020

Data Science and Business Analytics

The Sparks Foundation, Mode: online

Certifications

2020

Deep Learning Specialization by Andrew Ng

Credential ID: C5ZXYT7YB4B4 | Issue date: August 2020

<https://www.coursera.org/account/accomplishments/specialization/certificate/C5ZXYT7YB4B4>

Extracurricular Activities

2017-now

Core Social Volunteer, Art of Living (NGO), Kolkata.

2021

Participation in Indo-US Online Workshop on Recent Advances in AI & ML for Climate Science, ISI Kolkata, IEEE GRSS

2021

Student member and workshop participation at IEEE GRSS Kolkata Chapter.

2021

Student paper presentation at IEEE workshop on Spatial Geoinformatics using Machine Learning Approaches.

2017-18

Class Representative, Jadavpur University, Kolkata