

Durjoy SEN MAITRA

PERSONAL DATA

PLACE AND DATE OF BIRTH: Kolkata, India | 28 April, 1991
PERMANENT ADDRESS: Teghoria, Jugberia, Manikdanga Road, Kolkata 700110
PRESENT ADDRESS: 13A Yogendra Bhawan, JB Nagar, Andheri East, Mumbai 400059
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WORK EXPERIENCE

<i>Current</i> FEBRUARY 2018	Deputy Manager - Operations at MAHINDRA FINANCE , Mumbai <i>Creating models, Generate Analytics, Project Management</i>
<i>Past</i> MARCH 2016 - FEB 2018	Machine Learning Developer at DECIMAL POINT ANALYTICS , Mumbai <i>Artificial Intelligence</i> Developing end to end artificially intelligent systems to create unique tailor-made-products, real time services and solutions, optimizing human efforts.
<i>Past</i> OCT 2013 - FEB 2016	Project Linked Person at INDIAN STATISTICAL INSTITUTE , Kolkata <i>Handwriting Recognition using Machine Learning and Image Processing</i> Worked in the research project "Online Hand Writing Recognition (OHWR) - Phase II" funded by Technology Development for Indian Languages (TDIL) Programme of the Dept. of Information Technology, Govt. of India

KEY SKILLS

DOMAINS	Financial Computing, Text Processing, Computer Vision
MACHINE LEARNING ALGORITHMS	CNN, MLP, NN, Decision Tree, Random Forest, SVM, KNN, etc.
DATA ANALYSIS TOOLS	DataFrames, Pandas, Plots, Numpy, Weka, Gensim etc.
MACHINE LEARNING LIBRARY	Scikit-Learn, Tensorflow, Mocha, Keras, word2vec etc.
PROGRAMMING LANGUAGES	PYTHON, JULIA, C, C++, R, MATLAB, SQL, \LaTeX
COMPUTER VISION TOOLS	Tesseract OCR, OpenCV, Scikit-Image, Online/ Offline Handwriting Recognition,

PROJECTS

@ DECIMAL POINT ANALYTICS

Financial Recommendation System

A decision tree based end to end system to predict which investors are willing to invest on which companies analyzing the historical data of both investors and companies.

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Data-loader and Alpha Factor Generator

A data loading application to load financial updates from Quandl into database on a daily basis. Using the fundamental data of the companies, we derived more than 500 new complex financial factors that helps the recommendation system to predict the the potential buyers and sellers.

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PDF Information Extraction System

An application to extract useful information from the pdf files, having scanned images, based on tesseract OCR engine.

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Text Sentiment Analysis

Developed an 11 class (-5 to +5) english text sentiment classification system using convolutional neural network and google's word2vec model.

@ INDIAN STATISTICAL INSTITUTE

Character Recognition System Using Convolutional Neural Networks

Developed a transfer learning based character recognition system with convolutional neural network and support vector machine. Detailed description can be found in the published paper "[CNN based common approach to handwritten character recognition of multiple scripts](#)".

@ INDIAN STATISTICAL INSTITUTE

Bangla Online Hand-Writing Recognition System

An end to end system to recognize unconstrained online bengali handwriting data on character, word, line and paragraph level. Detailed description can be found in the published paper "[End-to-End System for Bangla Online Handwriting Recognition](#)".

PUBLICATIONS

- 1 | Soumik Bhattacharya, **Durjoy Sen Maitra**, Ujjwal Bhattacharya and Swapan Kr. Parui , "[An End-to-End System for Bangla Online Handwriting Recognition](#)", 15th International Conference on Frontiers in Handwriting Recognition (**ICFHR**), China, 2016, pp. 373-378
- 2 | **Durjoy Sen Maitra**, Ujjwal Bhattacharya and Swapan Kr. Parui , "[CNN Based Common Approach to Handwritten Character Recognition of Multiple Scripts](#)", 13th International Conference on Document Analysis and Recognition (**ICDAR**), Tunis, 2015, pp. 1021-10257
- 3 | "[ICDAR2017 Competition on Recognition of Early Indian Printed Documents – REID2017](#)", The 14th IAPR International Conference on Document Analysis and Recognition (**ICDAR**), Kyoto, Japan, 2017

EDUCATION

- JULY 2013 Master of Science, **West Bengal State University**, India
Full time course | Major: Computer Science
Dissertation: "Three Phases: An Automated Approach"
PERCENTAGE: 78.08
- JULY 2011 Bachelor of Science with HONOURS, **West Bengal State University**, India
Full time course | Major: Computer Science
Project: "Obstacle Avoider"
PERCENTAGE: 70.25
- JULY 2008 Higher Secondary, **West Bengal Council of Higher Secondary Education**, India
Full time course | Major: Mathematics, Physics, Chemistry, Biology
PERCENTAGE: 80.60
- JULY 2006 Secondary, **West Bengal Board of Secondary Education**, India
Full time course
PERCENTAGE: 75.75

SCHOLARSHIPS AND CERTIFICATES

- JULY 2011 Ranked 9th in BSc (Computer Science) at **West Bengal State University**, India.
2012 - 2013 Achieved **West Bengal Merit Cum Mean Scholarship** for Higher Study.

LANGUAGES

- BENGALI: Mother tongue
ENGLISH: Fluent
HINDI: Basic Knowledge

INTERESTS AND ACTIVITIES

Technology, Programming, Music
Cricket, Travelling, Movies

DECLARATION

I hereby declare that all the details given above are true to the best of my knowledge.

Signature with Date: