SHIBU MEHER

MHR IIT Bhubaneswar ⋄ Odisha, 751013
(+91)8917529970 ⋄ sm58@iitbbs.ac.in

EDUCATION

Indian Institute of Technology Bhubaneswar *July 2017 - Present*
Final Year Undergraduate Overall GPA: 8.93/10
School of Minerals, Metallurgical and Materials Engineering
Awarded Spark Summer Research Internship 2020

Council of Higher Secondary Education Odisha *July 2015 - July 2017*
Intermediate Percentage: 81.83%
Maa Samaleswari College of Science and Technology, Barpali, Odisha

Board of Secondary Education Odisha *July 2014 - July 2015*
Metriculation Percentage: 90%
Government Boys' High School, Barpali, Odisha
Junior Red Cross (Best Cadet in District Level Camp , Attended State Level Camp)
National Cadet Corps (A Certificate, One Combined Annual Training Camp)

TECHNICAL STRENGTHS

Computer Languages Python, C/C++, MATLAB, Fortran
Software & Tools HTML/CSS/JavaScript, LaTeX, Excel, COMSOL, Metadise, DLPOLY

EXPERIENCE AND PROJECTS

IIT Bhubaneswar Jun 2020 – Sept 2020
Project Assistant

· Worked on a consultancy project on "A Model-Based Decision Control and Support System for Accretion control to increase the production of Sponge Iron to the target annual capacity".
· Checked the presence of chaos in the obtained data from the plant
· Making a chaos-based control strategy for prediction and control of quality of sponge iron (Still in progress as B. Tech Project)

IIT Roorkee May 2020-July 2020
Spark 2020 Summer Research Intern

· Worked on improving the efficiency of thermo-electric material (Zinc Oxide)
· Performed computational modeling of grain boundary segregation of impurities in Zinc Oxide

TATA Long Product Limited, Joda May 2019-June 2019
Summer Research Intern

· Worked on on-line dynamic quality and process control of rotary kilns to increase productivity and kiln life.
· Made a nonlinear model to predict the quality of sponge iron and predict the required input to have the desired quality

- Implemented nonlinear denoising algorithms to reduce the noise from chaotic time series taken from heavy noise environment
- Developed an expert system to take decision based on plant conditions
- Developed an application containing the nonlinear model and the expert decision-making system.
- Checked the performance of the application in the plant
- Received Certificate of Appreciation

Epilepsy Detection from EEG Signal July 2019-Present

- Extracted two features from horizontal visibility graph of EEG signal and classify it using different classifying algorithm to study the accuracy

RELEVANT COURSES

Core Courses	**Other Courses**
Physical Metallurgy	Chaos in Dynamical System
Thermodynamics of Materials	Numerical Methods
Mechanical Metallurgy	Communication System
Chemical Metallurgy	Engineering Mathematics
Iron and Steel Making	AI for Medical Diagnosis
Modelling and Simulation of Materials	Introduction to TensorFlow for AI, ML and DL
Material Characterization	Neural Network and Deep Learning
Transport Phenomena and Kinetics	Control System and Technology
Phase Transformation	Satellite Communication Engineering
Electrical and Electronic Ceramics	Introduction to Programming and Data Structure
Light Metals and Alloys	Introduction to Economics
Polymer and Nano-composite	International Business

EXTRA-CIRRUCULAR

Second Prize at TATA Mind Rover Season 7

Second Position in BETic Innovation Challenge in Inter IIT Tech Meet

Received State Level Rajiv Gandhi Prativa Puraskar 2013

Senior NCC Cadet (Attended one Combined Training Camp and Passed 'B' Certificate Exam)

PUBLICATIONS

Shibu Meher et al 2020 IOP Conf. Ser.: Mater. Sci. Eng. 872 012077