MANIKANDAN M

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EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2021	M.TECH	IIT Kharagpur	8.83 / 10
2019	Bachelor of Technology	National Institute of Technology, Srinagar	8.0 / 10.0
2015	Higher Secondary Certificate Exam	Tamil Nadu State Board	95.17%
2013	Secondary School Leaving Certificate Exam	Tamil Nadu State Board	96.8%

COURSEWORK INFORMATION

Advanced Materials and Processes | Phase Transformations &Phase Equilibria | Stainless Steels and Advanced Ferrous Alloys | Principles and Techniques of Materials Characterization | Data Structures and Algorithms | Dislocation Theory | Processing by Powder Metallurgy Techniques | Programming and Numerical Methods in Materials Engg. | Thermodynamics of Engineering Materials | Metallurgical Kinetics

PROJECTS

M. Tech Project

A study of Dynamic Recrystallization behaviour of Nickel-based Superalloys through Cellular Automata coupled with Artifical Neural Network and Finite Element Methods

B. Tech Project

A study of the influence of Heat Treatment on the Microstructure, Hardness and Corrosion behaviour of Steels in manufacturing Cladding of Ship Hull Structure

SKILLS AND EXPERTISE

Machine Learning | Deep Neural Networks| Convolutional Neural Networks | Cellular Automata | Finite Element Analysis | Materials Data Science and Informatics | High Throughput Materials Development | Data Structures and Algorithms | MATLAB | Python Programming | Thermocalc | DICTRA | C | C++ |Java | Origin Pro | Microsoft Office

CERTIFICATIONS

Neural Networks and Deep Learning

Achieved a 100% grade in the online course titled, "Neural Networks and Deep Learning", authorized by deeplearning.ai and offered through Coursera

Materials Data Sciences and Informatics

Achieved a 100% grade in the online course titled, "Materials Data Sciences and Informatics", authorized by Georgia Institute of Technology and offered through Coursera

High-Throughput Materials Development

Achieved a 93.5% grade in the online course titled, "Introduction to High-Throughput Materials Development", authorized by Georgia Institute of Technology and offered through Coursera

Programming with Python

Achieved a 100% grade in the online course titled, "Programming for everybody", authorized by University of Michigan and offered through Coursera

Materials Science

Achieved a 100% score in the online course titled, "Materials Science : 10 Things Every Engineer Should Know", authorized by University of California, Davis and offered through Coursera

INTERNSHIPS

Industrial internship at JSW, Salem (December 2017)

Completed a 1 month internship at JSW by submitting a project report titled, "Analysis of furnace behaviour for high Manganese hot metal production with respect to blast furnace parameters" in the Blast Furnace department, JSW, Salem

Industrial internship at SAIL, Bhilai (August 2017)

Completed a 1 month internship at SAIL, Bhilai by submitting a project report titled, "Case Study on the Capital Repair activites of Blast Furnace" in the Blast Furnace department, SAIL, Bhilai
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