Deepa Tilwani

RESEARCH SCHOLAR

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Summary

Current Research Intern at AI Institute University of South Carolina, working on Autism detection based on ECG data. I had an experience as a Data Science intern and applied various techniques of machine learning for extracting information and building model accordingly. Open for collaboration research work in the field of data science, machine learning or artificial intelligence. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises.

Research Interests

Machine Learning, Deep Learning, Brain Computer Interface, Artificial Intelligence for Health Care.

Work Experience

AI Institute, University of South Carolina   *Remote-Columbia,South America*
RESEARCH INTERN   *October 2020 - Present*
- Working on Autism detection on the infants.

The LNM Institute of Information Technology   *Jaipur, Rajasthan, India*
GRADUATE TEACHING ASSISTANT   *August. 2019 - Present*
- Assisting and evaluating B.Tech students in Computer Network labs.
- Helping students to implementing queries in MySQL lab.
- Assisting and evaluating B.Tech students in MySQL lab work.

The Sparks Foundation   *Remote*
DATA SCIENCE INTERN   *Aug. 2020 - Sept. 2020*
- Pre-Processing of the data set provided using numpy and pandas libraries in python.
- Extracting valuable information from data set.
- Worked on creating models using supervised machine learning techniques for better accuracy.

Education

The LNM Institute of Information Technology   *Jaipur, Rajasthan, India*
M.TECH. IN COMPUTER SCIENCE AND ENGINEERING   *2019 - Pursuing*
- CGPA : 7.42

Govt. Women Engineering College (GWECA)   *Ajmer, Rajasthan, India*
B.TECH. IN COMPUTER SCIENCE AND ENGINEERING   *2014 - 2018*
- Percentage : 67.4

Queen Mary's Girls School   *Ajmer, Rajasthan, India*
INTERMEDIATE - 12TH   *2013-2014*
- Percentage : 68.4

Queen Mary's Girls School   *Ajmer, Rajasthan, India*
HIGH SCHOOL - 10TH   *2011-2012*
- CGPA : 7.2

Honors & Awards

INTERNATIONAL

Sept 2020	**2nd Prize**, LINZ Ars Festival -BR41N.IO HACKATHON	*Linz*
July 2020	**2nd Prize**, BR41N.IO: Brain-Computer Interface Designers Hackathon	*Austria*

DOMESTIC

2016	**1st Place**, Presentation on AR and VR Technology	*GWECA*
2015	**3rd Place**, Toast to Code- C Language	*GWECA*
2012	**Silver Prize**, National Science Olympiad	*Ajmer*

Projects

Prediction of Autism from infants   *Remote- AI Institute University of*
                                                                        South Carolina

RESEARCH INTERN   *Oct. 2020- Present*
- Working on analyzing an ECG data-set of infants for early detection of Autism.
- Pre-processing, feature extraction and developing models using Machine Learning and Deep Learning algorithms.

Data Analysis of ECoG Data   *Remote-Linz*

HACKATHON PROJECT   *Sept. 2020*
- Analyzing an ECoG data-set having the data of rock paper scissor hand movements or hand-poses from an epilepsy person in order to optimize pre-processing, feature extraction and classification algorithms. Compared machine learning algorithms results with state-of-the-art algorithms.

Motor Imagery EEG BCI Data Analysis   *Remote- Austria*

BR41N.IO BRAIN COMPUTER INTERFACE DESIGNERS HACKATHON PROJECT   *July. 2020*
- Analyzed a motor imagery BCI data-set from a chronic stroke patient in order to optimize pre-processing, feature extraction and classification algorithms. Compared results with state-of-the-art algorithms.

Freelancer Website   *GWECA*

MAJOR B.TECH PROJECT   *Dec 2017- April 2018*
- Website for final year project submission.
- Where user or freelancers registers themselves to search or request needed jobs of their interest.
- Any project or job can also be added by the companies who are looking for respective candidates who can willingly complete the projects provided.

Presentations

Presented Paper>   *20-21 MARCH,2021*
                                                          GEETANJALI INSTITUTE OF TECHNICAL
INTERNATIONAL CONFERENCE ON DATA DRIVEN COMPUTING AND IOT (DDCIOT-2021)   *STUDIES, UDAIPUR*

- A Comparative Study and Tool to Early Predict Diabetes using Various Machine and Deep Learning Based Techniques.
  Authors: Shrusti Porwal,Chintal Patel,Deepa Tilwani,Shrikrishn Bansal.
  Paper id 41

Skills

Back-end	MySQL
Front-end	HTML5,CSS
Tools and Technologies	C, Python, LaTeX, Machine Learning, Matlab, Digital Signal Processing
Languages	Hindi, English

Certifications and Training's

Data Analytics Virtual Training Program   *Quantium*

VIRTUAL TRAINING   *Sept. 2020*
- Analysed data of a daily store.

Fundamentals of Scalable Data Science   *IBM*

CERTIFICATION   *July. 2020*
- Introductory Course on Data Science by IBM

Python for Everybody Specialization   *Coursera*

CERTIFICATION   *April. 2020*
- Specialization Course for Python.

Indian Space and Research Organization   *Jodhpur, Rajasthan, India*

SUMMER TRAINING PROGRAM- WEB DEVELOPER   *Jun. 2017 - July. 2017*
- Implemented back end using MySql which is communicating with client, along with two other team members who wrote the php logic's and designed front end.

Government Women Engineering College   *Ajmer, Rajasthan, India*

FEST WEBSITE DEVELOPER   *Jan. 2016 - Mar. 2016*
- Designed website with other team members for college technical fest with a separate login portal for students and organizers.