
TANUMON ROY

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Education

National Institute of Technology, Warangal – <i>B. Tech</i> – 7.49 CGPA Electronics and Communication Engineering (ongoing 6th Semester)	JULY 2017 - Present
Burdwan Municipal High School, Bardhaman, W.B. – <i>Class XII</i> – 88.2% WBCHSE Board (Science)	JUNE 2015 - MAY 2017
St. Xavier's School, Bardhaman, W.B. – <i>Class X</i> – 93.6% ICSE Board	APR 2007 - MAY 2015

Subjects

Electives

Object-oriented programming, Data Structures, Practical Machine Learning with Tensorflow (NPTEL), Internet of Things

Technical Proficiency

Python, C/C++, Java, Object-Oriented Programming (OOP), Data Structures, Algorithms, Machine Learning, Deep Learning, HTML + CSS, Bootstrap, SQL, PHP, DBMS, PhpMyAdmin, Git, Github, IFTTT, AWS, Arduino UNO, ESP8266, Octave, R-Programming, VHDL, PSpice, MATLAB, AutoCAD, MIT AppInventor, Adobe Photoshop, Adobe Illustrator, FL Studio

Projects

Tic-Tac-Toe Game design Tic-Tac-Toe game designed in Python 3.x using Backtracking (Minimax algorithm) as the logic and Tkinter for the GUI.	JUNE 2020
Phishing URL Detection with Machine Learning Collected various URL data, extracted the features, built a Neural Network model using tf.keras and trained that model to identify potential phishing URLs. Test accuracy was about 80%.	MAY 2020 - JUNE 2020
Huffman encoding in Python Wrote Python code for applying Huffman encoding to a text file and compressing it to form the .bin file, then decompressing it to retrieve the original text file. Data Structures used were hashmaps, trees and min-heap.	MAY 2020
Dynamic Web Page design Designing a fully functional marketing webpage using HTML, CSS, Bootstrap in the front-end, and MySQLi, PHP in the back.	APR 2020 - MAY 2020
Resolving Overfitting problem in a ML model Resolved Overfitting problem in a ML model over FMNIST dataset by introducing a dropout layer with rate 0.2 after the hidden layer and then increasing the number of training epochs. Accuracy of the model increased from 87% to almost 88.7%.	FEB 2020
Gesture-controlled Robot Successfully made a robot car which followed the direction in which the user tilted the smartphone.	JAN 2020
LED Chaser Circuit Designed a LED chaser circuit with its own power supply unit to convert AC input to suitable DC. Major components used were 555 timer IC and CD4017 decade counter IC.	OCT 2019
RFID-enabled Remote Door Lock System Implemented Internet of Things while designing a door lock, as a part of Home Security System. Components used include ESP8266 WiFi module, RFID RC522 reader, AWS IoT core, Amazon SNS, Blynk App and solenoid lock.	OCT 2019 - NOV 2019
Handwritten Digit Recognizer Built a machine learning model over the MNIST dataset which is a Neural Network trained by Stochastic Gradient Descent with the help of libraries like Lesagne, Theano and Numpy.	SEP 2019 - OCT 2019
Voice controlled Home Automation Controlled various electrical appliances using Voice via Google Assistant, tied up with IFTTT and Adafruit IO. Here, the ESP8266 WiFi module was used and the embedded code for this was written in Arduino IDE.	SEP 2019
Designing FIFO operation over FPGA using Verilog HDL Designed basic FIFO operation over a Field Programmable Gate Array (FPGA) in Verilog HDL using Vivado 2018.3 software by Xilinx. The FPGA used was of the Spartan 6 model.	MAR 2019 - MAY 2019
Basic mini projects on Arduino UNO	DEC 2017

Online Certifications & Trainings

Machine Learning Career Track – Coding Ninjas

<https://ninjasfiles.s3.amazonaws.com/certificate93748147d95556334475973f9abf75e2b056a8.pdf>

<https://ninjasfiles.s3.amazonaws.com/certificate9374806becf11945c8a9c1e38af36ed6a907df.pdf>

Online Certified course on Python, Data Structures-Algorithms in Python and Machine Learning, offered by Coding Ninjas.

Web Development – Internshala

https://trainings.internshala.com/verify_certificate

Online Certified course on Web-Development using HTML, CSS, Bootstrap, SQL and PHP, offered by Internshala. (Cert. No.: 09438935-A356-D6E1-6C45-18813372602E)

Practical Machine Learning using Tensorflow 2.x – NPTEL

<https://nptel.ac.in/noc/Ecertificate/?q=NPTEL20CS44S1PC582591>

Online Certified course on Machine Learning and Deep Learning using Tensorflow 2.x, authorized by IIT Madras and Google, offered on NPTEL.

Machine Learning with Python – Kaggle

<https://www.kaggle.com/learn/certification/tanumonroy/python>

<https://www.kaggle.com/learn/certification/tanumonroy/intro-to-machine-learning>

Online micro-course on Python and Machine Learning, offered by Kaggle.

Python 101 for Data Science – CognitiveClass.ai

<https://courses.cognitiveclass.ai/certificates/9975f9253add43428c32f3e1423204a4>

Online certified course on the introduction of python and its basic use towards Data Science.

Machine Learning – Coursera

<https://www.coursera.org/account/accomplishments/verify/SPUBG76243CD>

Online non-credit course, taught by Andrew Ng, authorized by Stanford University and offered through Coursera.

Positions of Responsibility

Event Organiser at Youth Fest 2020

JAN 2020

ROBOTICS CLUB, NIT Warangal

Organized an exhibit showcasing working prototypes of different kinds of robots for local school children; Organised a quiz event on robotics for almost 60 participants.

Executive Member

SEP 2019 - Present

ROBOTICS CLUB, NIT Warangal

Selected as the Executive Member of ROBOTICS CLUB, NIT Warangal for the Academic Year 2019-20.

Member of Organizing Committee

JAN 2019 - Present

Bengali Group NITW

Member of the Organising committee for Saraswati Puja (cultural festival) at college.

Extra-Curricular Activities

Guitar

Professionally trained and Distinction certificate for Part-1 (2005-2006), Part-2 (2006-2007) and 1st Year (2007-2008) issued by Pracheen Kalakendra (Chandigarh).

Vocals (Singing)

Professionally trained from 2008 to 2013. Achieved Distinction certificate for Rabindra Sangeet (vocal) in 1st Year (2007-2008) issued by Pracheen Kalakendra (Chandigarh).

Painting

Professionally trained from 2004 and achieved 1st Division certificate in Part-2 (2004-2005) and 1st Year (2007-2008) issued by Pracheen Kalakendra (Chandigarh).

Music Production

Produced electronic music using softwares like FL Studio and Audacity, and released on platforms like Spotify, YT Music etc.

Swimming

Professionally trained from MAR 2009 to OCT 2010. Achieved Certificate of Participation in city-level competition organized by Children's Cultural Centre, Alamganj, Burdwan.

Awards & Recognitions

Sport's Day by St. Xavier's School, Burdwan

DEC 2014

Achieved 3rd position in Shot-put during Sport's Day in St. Xavier's School, Burdwan.

National Science Olympiad by Science Olympiad Foundation (SOF)

MAR 2012

First Position in School level NSO conducted by SOF in 2009 and 2012. Participation Certificate from 2007 to 2012.

Painting Competition by Govt. of West Bengal

JUN 2008

Achieved merit certificate in painting competition organized during Forest Week (2006 and 2008) by Government of W.B.

Profiles

LinkedIn: <https://www.linkedin.com/in/tanumon-roy-6b2109193>

Github: <https://github.com/t-ROY-coder>

Languages

English, Bengali, Hindi (Read/Speak/Write)