AANSHI GUPTA

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EDUCATION

Dr. Shyama Prasad Mukherjee-International
Institute of Information Technology, Naya Raipur *August 2016 - Present*
B.Tech Undergraduate, Currently Pursuing
Department of Computer Science and Engineering
Board-UGC

Chinmaya Vidyalaya, NTPC Colony Unchahar *2015-16*
Board-AISCCE Overall GPA: 10/10

Chinmaya Vidyalaya, NTPC Colony Unchahar *2013-14*
Board-AISCCE Overall GPA: 10/10

PROFESSIONAL SKILLS AND ABILITIES

Computer Languages	Verilog, Assembly Language, MATLAB, C, C++, Java (Basic), HTML, SQL, CSS, Python, Bootstrap, JQuery
Software	LaTeX, Excel, Xilinx, Cadence, Multi-Sim, Arduino, emu8085, Keil, Arduino IDE, Net-Sim, Wireshark
Platforms	Arduino, Raspberry Pi, Trainer kit for Microprocessors

EXPERIENCE

IIIT Allahabad May 2018 - July 2018
Undergraduate Research

Guided By: Dr. K.P. Singh, Asst. Professor, IIIT-A

· Here the stock prices were predicted using the dataset over 10 years and applying the feature selection to extract the important features effecting the change in stock price(by observing the PCA) and then applying SVR.

CETPA Noida December 2018 - January 2019
Web Development Training

· Developed a Website for photography.

ACADEMIC PROJECTS

AnaemiaCare:Rural Healthcare System for anaemia Detection August 2018-Current
Guided By: Dr. Venkanna U., Asst. Professor, CSE, IIIT-NR

· This project is an application of DIP.
· In this project, an user friendly app was developed for capturing eye image and then the image was transferred to the laptop using its bluetooth module.
· Then the eye part was cropped using Viola Jones' algorithm.
· Further segmentation of the conjunctival pallor was done using the Hough Circle algorithm for detecting the pupil and then the conjunctival pallor was segmented.

- Then RGB feature extraction was done and EI(Erythema Index) was calculated.
- Currently we are working on the training dataset(creating dataset) to train the model with the correlation between haemoglobin levels and the EI and hence classifying the acute-anaemic, severe-anaemic and non-anaemic patients.

Training and Career Website for T&P Cell of IIIT-NR August 2018-December 2018
Guided By: Dr. Ankit Choudhary, Asst. Professor, CSE, IIIT-NR

- Developed a website for the Training and Placement Cell named TCC of IIIT-NR.
- Added features like CV builder and made the website more dynamic.

Stock Price Prediction using SVR May 2018-December 2018
Guided By: Dr. K.P. Singh, Asst. Professor, CSE, IIIT-A

- Here the stock prices were predicted using the dataset over 10 years and applying the feature selection to extract the important features effecting the change in stock price(by observing the PCA) and then applying SVR.

Visual Theremin August 2017-December 2017
Guided By: Dr. Rajarshi Mahapatra, Associate Professor, ECE, IIIT-NR

- This project explored the capabilities of tracking a Theremin performer in real-time using a raspi camera.
- Development of this project was done in the MATLAB Simulink module.
- The main goals of this project were: to detect an object in Realtime, apply algorithms to track an object in real-time, and to emulate the sound a physical Theremin instrument.

Paper based Capacitive pressure sensor implemented to make Paper Piano August 2017-December 2017
Guided by: Dr. Debanjan Das, Asst. Professor, ECE, IIIT-NR

- It presents a conceptually different approach that utilizes the inartificial design of the surface roughness of paper to realize a capacitive pressure sensor with high performance compared with sensors produced using costly microfabrication processes.
- It utilizes a writing activity with a pencil and paper, which enables the construction of a fundamental capacitor that can be used as a flexible capacitive pressure sensor with high pressure sensitivity and short response time and that it can be inexpensively fabricated over large areas.

Automatic Curtain opener and closer based on ambient light January 2017-May 2017
Guided by: Dr. Debanjan Das, Asst. Professor, ECE, IIIT-NR

- It is an Arduino based project.
- It is an eco-friendly step towards saving electricity and reduction of manpower.
- The project involves the use of LDR sensor, IR sensors, and DC motor.

ACADEMIC ACHIEVEMENTS

Secured second position in local edition of Hult Prize held at IIIT NR 2018

Secured second position in local edition of Hult Prize held at IIIT NR 2017

District Topper of Physics in Class 12 CBSE Boards 2016

Qualified for second round of National Science Olympiad 2014

Ranked in top 0.1%(among 1,300,000 students) in CBSE Boards 2014

Qualified for the second round of International Maths Olympiad 2010

Qualified for the second round of National Science Olympiad 2010

Secured 271 rank in State Level (second round) of National Science Olympiad 2007

COURSES TAKEN

First Semester August 2016-December 2016

Introduction to Computers and Programming, Digital Design System, Mathematics-I, Engineering Physics, Professional Communication

Second Semester January 2017-May 2017

Data Structures and Algorithms, Discrete Mathematics, Principles of Management, Computer Organisation, Network Analysis and Synthesis, Communication Skills-1, Electronic Devices and Circuits, IT Workshop-1

Third Semester July 2017-December 2017

Design and Analysis of Algorithms, Database Management System-1, Sensors and Actuators, Embedded Systems-1(Microprocessors), Signals and Systems, Vectors Calculus and One degree differential equations, Communication System, IT Workshop-2 , Environmental Engineering Science

Fourth Semester January 2018-May 2018

Artificial Intelligence, Data Communication and Computer Networks, Object Oriented Methodologies, Numerical Methods and Random Processes, VLSI Design, Digital Signal Processing, Embedded System-2(Microcontrollers)

Fifth Semester July 2018-December 2018

Cryptography, Data Mining, Database Management Systems-2, Formal Languages and Automata Theory, Operating Systems

POSITION OF RESPONSIBILITY

Ganesh Mahotsav 2 September 2018
Head Organisor *IIIT Naya Raipur*

· Managed and organised the Ganesh Mahotsav including of cultural events.

Technovate 2.0 - Technocultural fest 17-18 March 2018
Event Head *IIIT Naya Raipur*

· Event Head of Appiness-The App Development competition in the fest.

Scien-Ti-fic January 2018
Motivational Talk *IIIT Naya Raipur*

· Motivated 200 school students about the advancements in CSE field.
· Motivated them on never losing the opportunities.

Hult Prize Campus version November 2018
Organising Team *IIIT Naya Raipur*

· Worked as a member of the organising team.

Ganesh Mahotsav September 2018
Head Organisor *IIIT Naya Raipur*

· Took the first initiative of celebrating this ritual as a 5 day event accompanied with many of the cultural events.

Technovate 10-11 February 2018
Volunteer *IIIT Naya Raipur*

· Volunteered in organising the dance event in the fest and also as the fest volunteer.

European Fellowships and Opportunities with Funding 17 September 2016
Volunteer *IIIT Naya Raipur*

· Volunteered in the event.

EXTRA-CURRICULAR

Silver Medallist in Table Tennis Singles Aarambh 2.0-Intra Sports Fest(IIIT-NR) 2018

Silver Medallist in Badminton(Team) in Aarambh 2.0-Intra Sports Fest(IIIT-NR) 2018

Silver Medallist in Table Tennis Singles in Aarambh-Intra Sports Fest(IIIT-NR) 2017

Won 1st prize in Cultural Quiz held at IIIT-NR 2017

Silver Medallist in District Level Table Tennis Doubles 2014

Silver Medallist in District Level Table Tennis Singles 2013

SOFT SKILLS

Leadership, Teamwork, Patient, Punctual, Organised, Hard Worker, Responsible

PUBLIC SPEAKING SKILLS

Speech, Anchoring, Debate