Shilpi Mukherjee

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EDUCATION

Bachelor of Technology	*Computer Science and Engineering*	SGPA: **8.23, 7.91, 8.00, 9.33, 9.67**	July 2018-June 2022
Netaji Subhash Engineering College, Affiliated to MAKAUT	Kolkata
Higher Secondary	*PCA with Computer Applications*	80.67%	Mar 2016-June2018
Bidhan Chandra Institution for Girls, WBCHSE	Durgapur
ICSE	92.67%	Apr 2004 - Feb 2016
Carmel Convent High School	Durgapur

SKILLS

Courses: Data Structures and Algorithms, Computer Organisation and Architecture, Operating System, Advance Automata, Compiler Design, OOP, Discrete Mathematics, Statistics, Calculus, Database Management System.
Programming: Python (NumPy, SciPy, Matplotlib, Pandas, Django, Flask), Java, C, C++, MERN Stack
Platforms: Linux, Windows
Tools: GIT
Document Creation: Microsoft Office Suite, Markdown
Soft Skills: Leadership, Public Speaking, Technical Writing, Event Management.

EXPERIENCE

Full-Stack Development Intern	Feb 2021-Apr 2021
HAPL India	Remote
Machine Learning Intern	June 2020-Dec 2020
Tecnixs Infotech	Remote
Machine Learning Intern	Feb 2020-May 2020
TeamCognito	Kolkata
Mentor	Feb 2020-Feb 2021
SIH 2020 Hardware & SIH 2020 Software	Remote

HONORS AND AWARDS

Runner Up: Hult Prize 2020	Honor issuer*: Netaji Subhash Engineering College*	Jan 2020

SURAKSHANA: Steroid Detector for meat and milk.

Finalist: NEC Environment Hackathon	Honor issuer*: NEC India Pvt. Ltd.*	Jan 2020

Our solution used traditional techniques based on purifying water punched with IoT and
AI. The approach we follow will not only help curb water pollution but also
provide an efficient monitoring system to work upon the data collected.

Finalist: NEC Digitalizing Rural Education | Honor issuer*: NEC India Pvt. Ltd.*   Jan 2020
BACKBENCHERS: A Multilingual Educational Web & Mobile Application.

Finalist: Bhopal Smart City Hackathon | Honor issuer*: BNest, Hp, Govt. of Madhya Pradesh*   Dec 2019
Developed a working solution to aid the growing problem of road accidents in smart cities
by predicting the accident-prone zones and preventing road accidents with a deep learning model.

Finalist: Bengalathon | Honor issuer*: Govt. of West Bengal*   Nov 2019
PoShirt - to correct the posture. We created a wearable device to make the posture perfect.
My team-mate and I worked on around 2300 samples and fixed a model using Tensorflow,
which was directly integrated with our hardware device.

Finalist: KPIT Sparkle 2019 | Honor issuer*: KPIT*   Oct 2019
SCR (Selective Catalytic Reduction) Monitoring System
We have developed an LSTM + Tensorflow to minimise the NOx (Nitrogen Oxides) emission in the
environment and using this model we can identify the SCR efficiency of the engine in real-time.

Top 10 in India: NASA SpaceApps Challenge 2K19 | *NASA Space App Challenge Foundation*   Oct 2019
Surface -To-Air (Quality) Mission
Me along with my team, integrated LSTM - Tensorflow + Flutter to create a model-based
app of air quality surface that displayed the most accurate data for a location and time
along with creating algorithms that select or weigh the best data from several sources
 for a specific time and location, and display that information.

1st Position: NASA SpaceApps Challenge 2K19 State Level | *NASA Space App Challenge Foundation*   Oct 2019
Within 24 hrs, I along with my team created an Accident Prevention Prototype with Live Vehicle
tracking that helps to report accidents in real-time.
The system runs of KNN-Random_Forest-SVM-Tensorflow-Flutter

1st Position: NASA SpaceApps Challenge 2K19 Inst Level | *NASA Space App Challenge Foundation*   Sep 2019

2nd Position: SIH Hardware 2019 | *Honor issuer: MHRD Govt. of India*   Jul 2019
"Water From Thin Air"
My team developed the device to produce water from the air. My part was to develop an optimised
solution using Machine Learning Algorithm to control the air pressure and maximise water
production in different climatic conditions.

POSITION OF RESPONSIBILITY

Lead at Satish Dhawan Cell for Space Science   Dec 2020 - Present
Formed and led the first-ever space club in my college. Leading a team of 100+ space enthusiasts.

Alumni Association Head of CSE Department   Aug 2019 - Present
Participated and organized events enhancing the alumni network of the CSE Department of Netaji Subhash
Engineering College.