



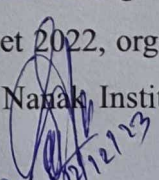
E-cell BCRCP nurtured students to be their own boss and attained success too. Their energetic and gearing attitude towards entrepreneurship and innovation was praiseworthy. E Cell, BCRCP applauds the contribution and achievements of **Sucheta Karmakar, B.Pharm 4th Year (Member E-Cell BCRCP since 2020)**. She was under constant mentorship of E-Cell BCRCP. She showcased her talent in various projects by developing indigenous biomedical devices and the novel idea of using artificial intelligence for detecting brain tumors. Many more such research related innovations are awaiting her doorway in the near future.

The students of B. Pharm were highly enthusiastic to become a part of this fast-moving world of Software Development and Artificial Intelligence. Therefore, Sucheta Karmakar (B.Pharm 4th Year) along with Mahima Chowdhury (B.Pharm 4th Year), Aniket Ojha (B.Pharm 4th Year), Shreya Majhi (B.Pharm 4th Year) have decided to use Artificial Intelligence via Machine Learning to detect a fatal disease, like Brain Tumor, which can aid in contributing towards development in medical sciences under the guidance of Prof. (Dr.) Subrata Chakraborty and Prof. (Dr.) Suman Roy. Observing the current status of our country, we felt that people dwelling in the outskirts and countryside need help in health and hygiene. Statistically, the mortality rate due to brain tumors in rural India is around 40%. So, this research project is a small attempt from our side to aid the peripheral doctors in early detection of brain tumors in patients.

Our students have built a scalable AI powered online tool for early detection of brain tumours to reduce mortality and morbidity rate in the most economical way possible and to eliminate human error in diagnosis & prevention. The project mainly involves Machine Learning and Web development, and the website can detect brain tumors from MRI scans (both still and live). They have used over 30,000 image data sets and have made an AI model which is 85% accurate till date. The system has been validated through actual data obtained from clinical radiologists. Our college has also collaborated with The Mission Hospital, Durgapur, for authenticity and data collection.

They presenting this model titled "Detecting Brain Tumor using Artificial Intelligence" at 12th Inter-University Engineering, Science and Technology Academic Meet 2022, organized by FOSET (Forum of Scientists, Engineers and Technologists) in Guru Nanak Institute of




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Technology (GNIT) campus on 11th September, 2022 in association with MAKAUT and they won the first prize in "Innovative Model Presentation For A Sustainable Society" for exhibiting and presenting their prepared model.

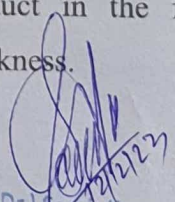


Left to Right: Ms. M. Chowdhury, Mr. A Ojha, Prof. S Chakraborty (Director, BCRCP), Prof. S Roy, Ms. S Karmakar & Ms. S Maji

Practice Ventures, presented on Feb 24, 2023.

“ASSUAGE”, is a practice venture project comprising 3 team members, **Amrita Singha, Antara Gupta, And Sinchan Roy (Students of B. Pharm 3rd Year)**. The project focuses on easing the problems and struggles of travelers and passengers who are tired of their unwanted habit of vomiting while traveling, i.e. Motion Sickness. “Assuage” offers its customers a very easy, comfortable, affordable, available, and handy product in the form of a handkerchief which is very light to carry for patients with motion sickness.




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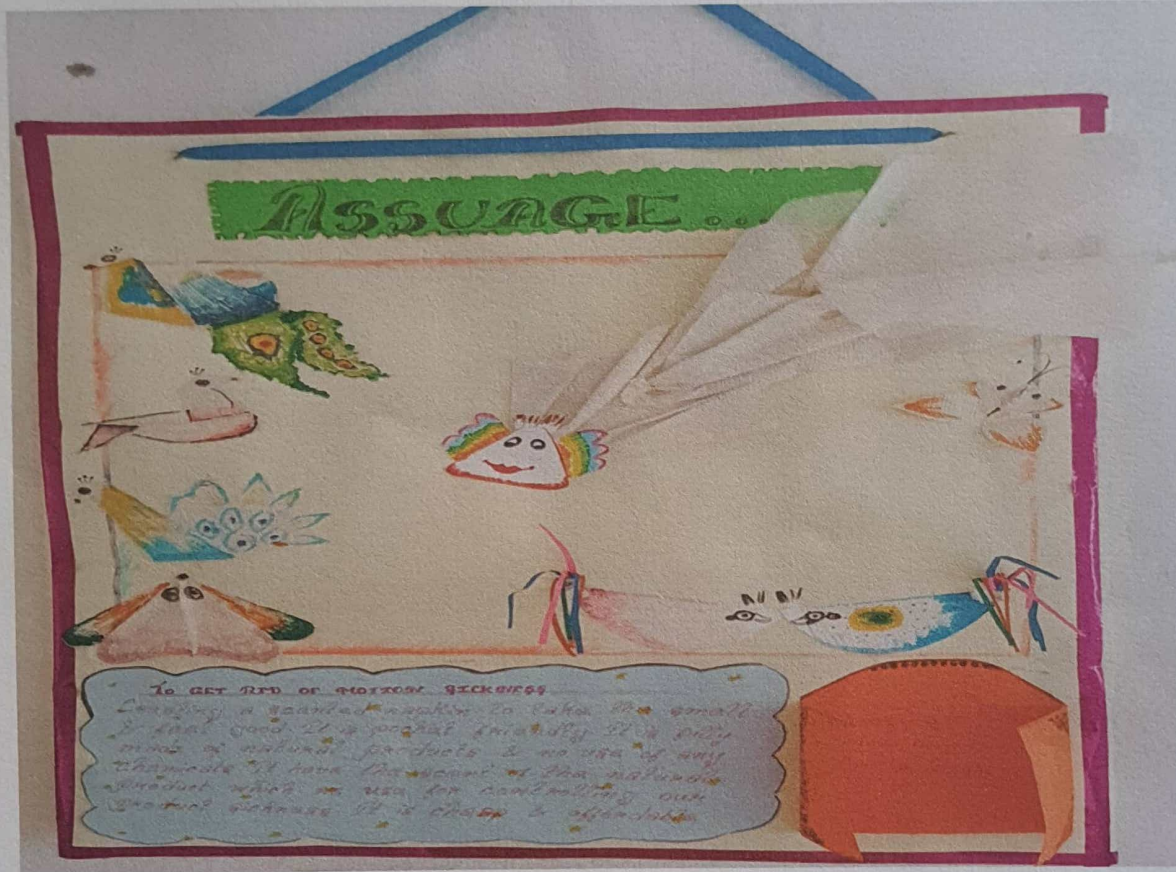
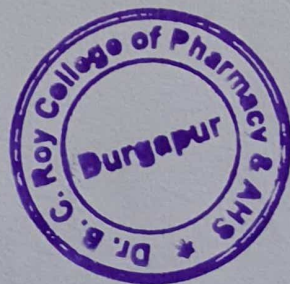


Fig.1. Practice Venture "Assuage" demonstration

It offers a way to overcome this problem by simply smelling the handkerchief and thus, it is in this way that the drug is sent to the patient's body via the nasal route. So that motion sickness is stopped and the passengers can enjoy their trips.



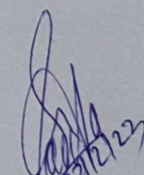
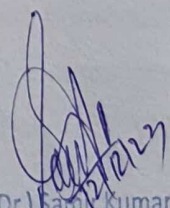

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Fig.2. The participants of Practice Venture (from left to right Amrita Singha, Antara Gupta, along with their mentor (Dr. Anirudha Mukherjee in the center), Soubhagya Mukherjee, Bastav Mazumdar)

Another project, “**MeDiCo**” is a healthcare platform and E-pharmacy start-up idea that sells medicines and telehealth online. This project was teamed up by **Soubhagya Mukherjee, Sayan Kar, Pritam De, and Bastav Mazumdar (Students of B. Pharm 3rd Year)**. It provides services, including E-pharmacy, diagnostics, consultation, and health content. Many people and pharmacists have difficulty reading or understanding prescriptions. Many villages do not have medicine shops so many people have to travel to the city to buy medicines. Thus, **MeDiCo** will fix the problems and will help many people to benefit as a result. A business plan for an Internet Start-up: **MeDiCo** was designed with the main objective of selling pharmacy goods at very competitive prices.




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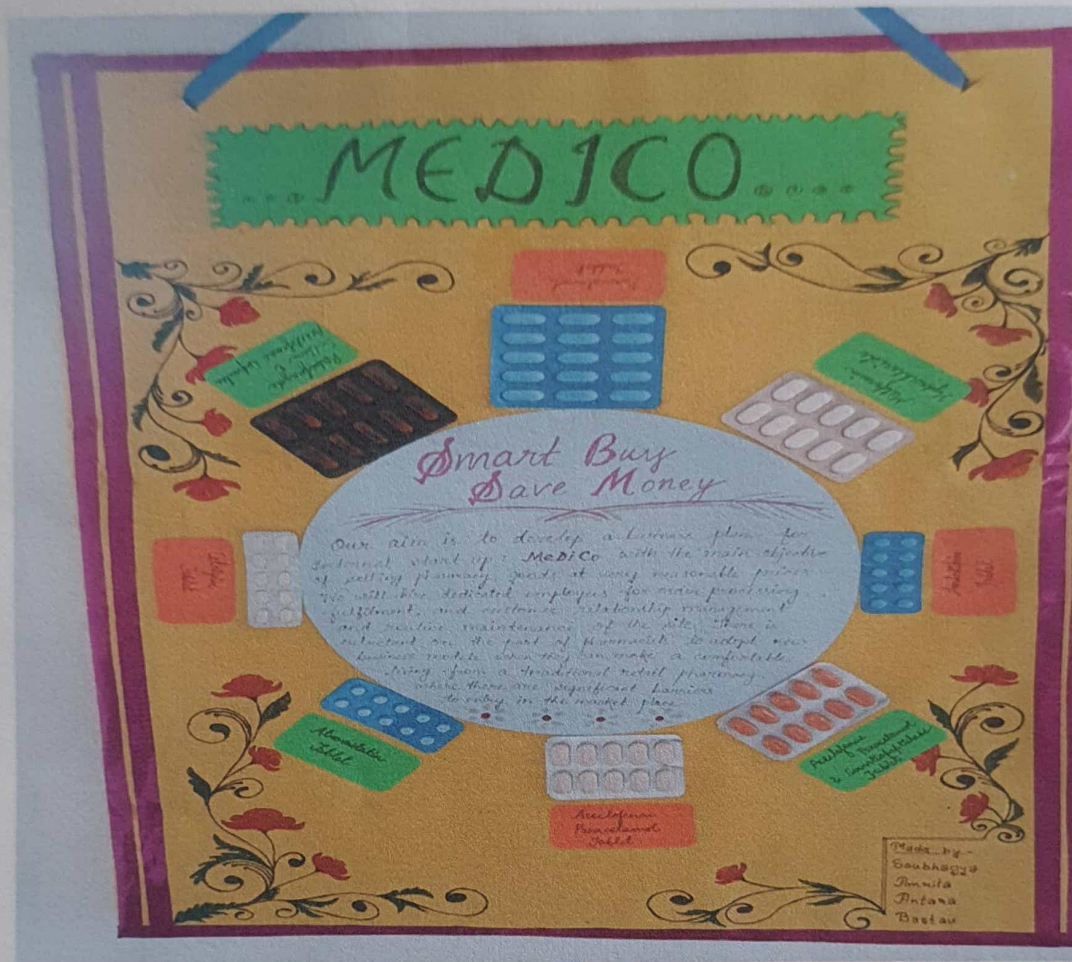
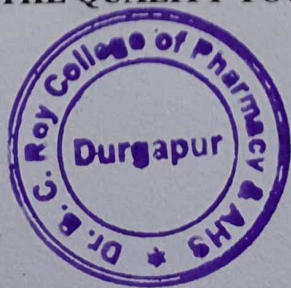
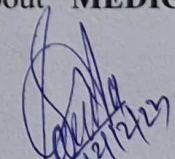
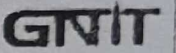


Fig.3. Practice Venture “MeDiCo” demonstration

The employees are dedicated to order processing, fulfillment, customer relationship management, and routine maintenance of the site. There is reluctance on the part of pharmacists to adopt new business models when they can make a comfortable living from a traditional retail pharmacy where there are significant barriers to entering the marketplace. The medicine will be provided at a low cost with a proper chart on how to take those medicines, special discounts, and exciting offers to customers, and home delivery is also available for 24 hours. Additionally, veterinary medicines will be stored to make them available in our online store with minimum prices. **MeDiCo** is all about **“MEDICINE AT YOUR DOOR AND THE QUALITY YOU CAN TRUST”**.




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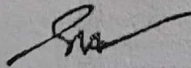
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
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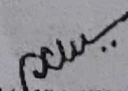
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This is to certify that Mahima chowdhury of B.C. Roy College of Pharmacy has presented a paper / model titled Detecting Brain Tumor Using Artificial in Model - Degree level in the 12th INTER UNIVERSITY ENGINEERING, SCIENCE & TECHNOLOGY ACADEMIC MEET 2022 & INNOVATIVE MODEL COMPETITION FOR A SUSTAINABLE SOCIETY organised by FORUM OF SCIENTISTS, ENGINEERS AND TECHNOLOGISTS (FOSET) in GURU NANAK INSTITUTE OF TECHNOLOGY (GNIT) Campus on 11th September, 2022. The paper / model has been awarded 1st prize in the stream.

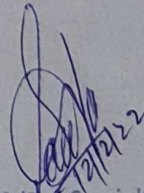
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This is to certify that *Shreya Maji* of *B.C. Roy college of Pharmacy* has presented a paper / model titled *Detecting Brain Tumor Using Artificial...* in *Model - Degree level* in the 12th INTER UNIVERSITY ENGINEERING, SCIENCE & TECHNOLOGY ACADEMIC MEET 2022 & INNOVATIVE MODEL COMPETITION FOR A SUSTAINABLE SOCIETY organised by *FORUM OF SCIENTISTS, ENGINEERS AND TECHNOLOGISTS (FOSET)* in *GURU NANAK INSTITUTE OF TECHNOLOGY (GNIT) Campus* on 11th September, 2022. The paper / model has been awarded 1st prize in the stream.

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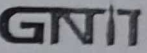
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This is to certify that *Sucheta Kaumakar* of *B. C. Roy College of Pharmacy* has presented a paper / model titled *Detecting Brain Tumour Using Artificial Intelligence* in *Model - Degree level* in the 12TH INTER UNIVERSITY ENGINEERING, SCIENCE & TECHNOLOGY ACADEMIC MEET 2022 & INNOVATIVE MODEL COMPETITION FOR A SUSTAINABLE SOCIETY organised by *FORUM OF SCIENTISTS, ENGINEERS AND TECHNOLOGISTS (FOSET)* in *GURU NANAK INSTITUTE OF TECHNOLOGY (GNIT) Campus* on 11th September, 2022. The paper / model has been awarded 1st / ~~2nd / 3rd~~ prize in the stream.

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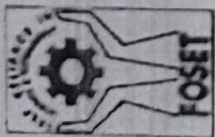
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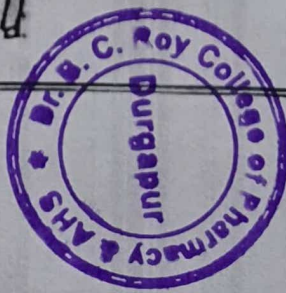
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This is to certify that *Aniket Ojha*..... of *B.C. Roy College of Pharmacy*..... has presented a paper / model titled *Detecting Bhaijn... Using Artificial...* in *Model - Degree level*..... in the *12TH* INTER UNIVERSITY ENGINEERING, SCIENCE & TECHNOLOGY ACADEMIC MEET 2022 & INNOVATIVE MODEL COMPETITION FOR A SUSTAINABLE SOCIETY organised by *FORUM OF SCIENTISTS, ENGINEERS AND TECHNOLOGISTS (FOSET)* in *GURU NANAK INSTITUTE OF TECHNOLOGY (GNIT) Campus* on *11th* September, 2022. The paper / model has been awarded *1st / 2nd / 3rd* prize in the stream.



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