



SHIV MEHTA

'Mathlete' | Full Stack Developer | ML/AI Enthusiast | Founder of Ureshii | FIRST Robotics Advocate | STEM Mentor | Taekwondo - Black Belt | Certified Open Water Scuba Diver | Anime and Manga Fan

✉ SHIVMEHTA722@GMAIL.COM

🌐 shivmehta.com | Ureshii.life

🐙 github.com/ShivM1104

📞 +919930388497

🌐 linkedin.com/in/shivmehta722

🗣️ medium.com/@shivmehta722

EDUCATION

IBDP

DHIRUBHAI AMBANI INTERNATIONAL SCHOOL

06/2021 - Present

3.75 CGPA | 40/45 IBDP Predicted

IBDP Courses

- Physics HL 7/7
- Computer Science HL 7/7
- Math AA HL 5/7
- English Lang and Lit 7/7
- Economics SL 7/7
- French B SL 5/7

LEADERSHIP INITIATIVES

Robotics Club

Mentor at DAIS

2021 - Present

Tasks/Achievements

- We have taught and mentored over 70 students from 4 grades at the DAIS Robotics Club. We started with CAD Fusion 360, making fidget spins and then moved them into groups to learn Java and Python.

Advance Math Club and Coding Club

Founder at OIS and EMWS ; Mentor at DAIS

2019 - Present

Tasks/Achievements

- Tutored over 100 students from secondary school from concepts and doubt clearing and competitive math in a fun way for two years. Currently working on conducting DAISMO (inter-school math Olympiad)
- Taught fundamentals of Java, basic Python and web development, specifically JavaScript frameworks. For advanced programming, we introduced them to Keras and TensorFlow ML.

STEM Community Outreach

IIT Techfest, Asia Expo & others

2019 - Present

Tasks/Achievements

- Spoke to more than 200k secondary school, college students and industry experts from all over India at IIT Techfest, Asia Automation exhibition, and Mumbai University, promoting STEM studies and Robotics and starting STEM clubs at their respective schools and communities.

Adopt-A-Cat Program

Partnership with 'Cat Cafe'

2019 - Present

Tasks/Achievements

- Lead campaign to drive cat adoption in schools with the message that having pets improves human mental well-being.
- Cats can lower our blood pressure and release dopamine and serotonin, which reduce stress and improve immune functioning.

ACCOLADES

NXT Venture Labs EpicQuest Global Entrepreneur (2022)

1st place winner for Project Ureshii

ICode Hackathon (2022)

Rank 13/1782 participants in National Qualifiers Round

Computer Science Honor Award (2022)

Best Effort Subject Award at school

Robotics Competitions (2012 - Present)

Participated in 8 FIRST competitions, 4 World Robotics Olympiad, and 3 Tech Fests and **Won** 8 International Awards and 9 National Awards

IRIS National Fair (2022)

National Qualifier 100 teams selected from 3500 projects

AMC 10 Rank 1 and AIME qualifier (2021)

American Math competition - top 5% in India

Avogadro Exam, University of Waterloo (2021)

Chemistry Exam, top 25 % Globally (2973 participants) and top 10% in India

MYP Global Innovation Award (2021)

Qualified Global Finalist for Project Ureshii

CEMC Cayley Math Competition (2021)

Top 5% globally from 12864 participants

Stanford AIML Course Online (2020)

Stanford online course CS229 Machine Learning passed with 98%

CEMC Pascal Math Competition (2020)

Top 5% globally from 27880 participants

InspirIT AI Scholars Summer Intensive in AI (2020)

AIML project using BERT(NLP Model) for sentiment analysis

INTERNSHIPS

Developer - AI Chatbot

Microsoft Research (www.karya.in)

06/2021 - 07/2021

Achievements/Tasks

- Project Karya is an initiative to help move 100 million people out of poverty in Rural India. I worked on an AI WhatsApp chatbot which enables workers with supplemental income by offering digital work like translation and captioning in local languages for Amazon Mechanical Turk etc...

Data & ML Analyst

221B Analytics (www.221b.solutions)

12/2020 - 03/2021

Achievements/Tasks

- At 221B-Analytics (Edtech startup) I worked on creating dashboards, implementing machine learning in the form of classification and clustering, and working on social media by creating advertisements.

PATENT PUBLISHING

Ureshii - Patent Application No : 202221013710A , April 2022

Mental Health Monitoring & Counseling System The present invention comprising of a portable computing body installed with multiple wheels for manoeuvring, a thermal imaging unit assembled on the body for capturing images of a user having mental health issues, a processing unit connected with the imaging unit for determining facial expression and identity of the user, a communication module integrated with a microcontroller installed on the body for fetching data stored in a user-platform related to the user, a touch responsive display unit assembled on the body for displaying personalized questionnaire for the user, a headband fabricated with an asset of sensors worn by the user for detecting variations in brain activity of the user while responding to the questionnaire and a projection unit mounted on the portable body for providing audio-visual graphic to the user for counselling the user to improve the mental health condition of the user.

RESEARCH PAPERS

Research Paper

URESHII - Improving One's Mental Wellbeing

Author(s)

Shiv Mehta & MS Reetu Jain (Mentor)

August 2022

IJSHRE vol 10 issue 8

Worked on the paper for more than two years collecting primary and secondary data through alpha testing and closed beta testing. Trained machine learning model, and tested accuracy using confusion matrix.

Research Paper

Convolution Neural Network Based Algorithm for Estimating the Intensity of Tropical Cyclones from Infrared Satellite Images

Author(s)

Shiv Mehta & Ms Reetu Jain (Mentor)

March 2022

IJSHRE Volume 10 Issue 3

Research Paper

Use Mechatronics and Software as a Service for Enhancing Total Quality Research Subsidiary of Microsoft in the Manufacturing Industry

Author(s)

S. Bhaskar, Dr Rudra Narayan Baral, Shiv Mehta, Gulmira Abisheva, Aislu Minayeva, Gulzhan Seidullaeva, Shaik Fasi Ahamad

June 2022

IEEE XPLORE Electronic ISSN: 2768-5330

Learned primary and secondary data collection, pre-processing, sorting, stimulation and validation

Research Paper

Development of an Open-source flight simulator for low-end computers

Author(s)

Amish Jindal, Shiv Mehta, Manini Mittal, Abha Gupta, Gandharv Jaggi

Date of Publication

ICTACEM 2021

Assisted Dr. Abha Gupta in the development of an open-source flight simulator for low-end computers. Conducted a comparative literature survey on various commercial flight simulators and their aerodynamics model. Became familiar with the Unity game engine.

PRODUCT DEVELOPMENT

Ureshii

Development Journey

- Ureshii is a mental health platform that helps track and improve your mental health and happiness. It uses machine learning technology with clustering algorithms to recommend apt activities and create the best mental health path for each user.
- Ureshii is ported on Reliance Jio STB, JIO, and android phones to reach out to teenagers in rural and urban India.
- Ureshii now has 200K users in 18+ countries.
- Media Coverage in 38 local newspapers in India
- Won 1st place at NXT Venture Labs EpicQuest Global Entrepreneur

STEM PROJECTS

Sweat Analysis Device (2021 - 2022)

- Worked on developing the device for real-time monitoring of Sweat compounds such as ammonia, salt, sugar, and urea for estimating the possibility of 14 different diseases using the ionisation Method.

Apollo - Acupressure On Located Lines of Organs (2020 - 2021)

- APOLLO is an easy to use, convenient, less time consuming and user custom product that helps in mental and physical health issues by pressurising acupressure points in the palm, it can improve and even cure issues like insomnia, headaches, musculoskeletal issues, and many more problems.

Gear up Girls and (2019)

- A workshop conducted for girls 9-14 to introduce them to the fun world of science and technology through littleBits, Makey- Makey, Scratch, Arduino and Tinkercad.

School of life NGO (2019)

- Ran workshop with 50 children from the school of life NGO on 3D printing, simple circuitry in the forms of DIY, an Icecream stick torch and a mini toy car.

VOLUNTEERING

— Trash Segregation and Composting Team G-Force

2019

Tasks/Achievements

- We went door to door collecting 200 kg of dry waste from 160 apartments in a neighbourhood society and then sold it to a scrap dealer for 3000 INR. The money was then used to purchase a composting bin for the building. We taught them all the benefits of sorting waste and composting it.

— Save Water Drive Team G-Force

2020

Tasks/Achievements

- Installed 24 sensors in overhead water tanks in older buildings in Juhu, Mumbai, where wastage per day due to overflow of 15 minutes is 900 gallons of water. Saving 21600 Gallons of water per week.

— Teaching - Down syndrome Kids Jai Vakeel Foundation

2022

Tasks/Achievements

- We have Taught over 50 underprivileged students with down syndrome about basic life skills such as hygiene, nutrition, exercise and global cultures.