Aditi Chowdhuri

Full Stack Web Developer | UI/UX Designer | Machine Learning

Mumbai, India
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EXPERIENCE

Bank of America, Mumbai — *Software Engineer*

JULY 2022 - PRESENT

Tata Consultancy Services, Mumbai — *Software Developer*

JULY 2021 - OCTOBER 2021

Trikon Technologies, Noida — *Web Developer*

AUGUST 2020 - DECEMBER 2020

roboVITics, VIT, Vellore — *Event Organizer*

MARCH 2020 - MARCH 2021, CORE COMMITTEE MEMBER (DECEMBER 2018 - MAY 2022)

IEEE Chapter, VIT, Vellore — *Core Committee Member*

DECEMBER 2018 - JULY 2022

IEEE Access, Remote — *Reviewer*

JUNE 2022 - PRESENT

EDUCATION

Vellore Institute of Technology, Vellore — *B. Tech.*

JUNE 2018 - MAY 2022

CGPA –9.19

PACE Junior Science College, Mumbai — *Higher Secondary*

JUNE 2016 - APRIL 2018

State Board (HSC) – 81.08%

Thakur Public School, Mumbai — *Secondary*

JUNE 2005 - APRIL 2016

ICSE – 94.60%

PROJECTS

Baby Shield

A baby monitoring system, primarily developed to prevent SIDS in newborn infants and raise an alarm in case any anomaly is detected.

SKILLS

Machine Learning, Artificial Intelligence, Deep Learning, Federated learning, Git, Arduino, Raspberry Pi, Full Stack Web Development, Figma, Adobe Photoshop, Adobe Premiere Pro, Adobe XD, Google Firebase, Google Firestore, GCP, AWS, Linux.

PROGRAMMING LANGUAGES

Python 3, Java, C, C++, C#, R, MATLAB, SQL, Javascript, Go

FRAMEWORKS

Tensorflow 2.0, Keras, PyTorch, Numpy, Pandas, Matplotlib, Plotly, OpenCV, Beautiful Soup, Gunicorn, SQL, Flask, HTML5, CSS3, JQuery, PHP, NodeJS, ExpressJS, ReactJS, D3 JS, EJS, JSX, MongoDB, OpenMP, MPI, Intel 8086 Assembly.

AWARDS

UNIHack 2020, Overall 2nd – UniHacks (~50teams)
Women Techies 2019, Winner 1st place
yuHacks 2021, Best use of Google Cloud (~50 teams)
SwampHacks 2021, Best use of Hardware (~70 teams)
WinHacks 2021, People's Choice 2nd (~100 teams)
WiCS 2021, Overall 2nd Prize and Best use of Hardware (~100 teams)
SheHacks 2021, Overall 1st Prize and Best use of Hardware

Tutor AI

A platform to provide assistance in learning physically demanding tasks. It has been integrated with PoseNet to provide posture correction and feedback.

Justice

Safety device with a Taser for protection, a hidden camera device to incriminate offenders, an app to send SOS texts and current location, and a central server for police to track multiple users' locations.

Visual Hertz

A platform to help the auditory impaired people attend classes that do not incorporate sign language.

Covid 19

A tracking website plotting the progression of the SARS-CoV-2 virus pandemic in real-time.

Memory++

An app that helps dementia patients to make a to-do list and update it according to their requirements. It has an earpiece that will give them a reminder every 5 min.

RESEARCH PAPERS

Temporal Weighted Averaging for Asynchronous Federated Learning

Computational Intelligence and Neuroscience 2021, Hindawi - https://www.hindawi.com/journals/cin/2021/5844728

Progressive search personalization and privacy protection using federated learning

Expert Systems, Wiley- https://onlinelibrary.wiley.com/doi/abs/10.1111/exsy.13318

Suraksha: The Ultimate Self-Defense Kit for Women

Volume 12, Issue 02 (February 2023), International Journal Of Engineering Research & Technology (IJERT) - https://www.ijert.org/suraksha-the-ultimate-self-defense-kit-for-women

BLOG

Introducing Firestore for Web-Apps

https://medium.com/swlh/getting-data-from-firestore-for-web-apps-127dc38db8c7

(~70 teams)
IIT Bombay's EdTech Hackathon 2021, Top 15 (~1200 teams)
Special Achievers and Achievers 2021 - VIT University
Smart India Hack 2022 (Internal Hack) - VIT University

LANGUAGES

English, Bengali (Mother Tongue), Hindi, Marathi, Gujarati, Spanish

GITHUB

https://github.com/Aditi-Chowdhuri

LINKEDIN

https://www.linkedin.com/in/aditi-chowdhuri-a67786183

GOOGLE SCHOLAR

https://scholar.google.com/citations?user=IFqewkgAAAAJ&hl=en

ORCID

https://orcid.org/0000-0003-0734-3535

EXTRA-CURRICULAR ACTIVITIES

Chess (National Level), Swimming, Skating