Atharva Sawant

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EDUCATION

Plaksha University, Class of 2025   Mohali, Punjab, India

B.Tech. in Biological Systems Engineering | Activities: Plaksha Student Ambassador (2022-23), Infinity 2.0 (Student Ambassador, 2022-23) | Relevant Coursework: Nature's Machines (full coursework available at atharvasawant.com/coursework.html)

Namo Rims International School and Junior College, Class of 2021   Pune, Maharashtra, India

Higher Secondary Certificate Examination (HSCE – Science Stream): 92.0%
Activities: Code for Need (Founder), Google Developers Group – Pune (Student Developer Advocate), Analogtomy (Editor-in-Chief), Namaste Venture (Project Head), Mathematics & Physics Tutor, Mental Health Advocate

Rotary English Medium School, Class of 2019   Khed, Maharashtra, India

All India Secondary School Examination (AISSE – CBSE): 96.40%
Activities: Drama Club (President, Playwright & Stage Actor), Lead Organizer for Social Events, Web Developer, Mathematics Tutor, Co-Captain for Green Sports Team, Environmental Activist

WORK EXPERIENCE

McGovern Institute for Brain Research at MIT   Cambridge, Massachusetts, USA
Summer Research Intern   May 2020 - July 2020

- Analyzed the impact of the COVID-19 outbreak on teenage mental health & receptiveness of mental health support using an online resource platform with live Online Screening Tests (OSTs) for mental health disorders (incl.) Anxiety, Depression, and Addiction.
- Worked under Dr. Satrajit Ghosh to collect a dataset which empowered us to discover that a likelihood of a mental health disorder contraction has increased by 30% in teenagers & adolescents since the outbreak, and ultimately, these findings were compiled in a research abstract.
- After the study, the platform was merged into my non-profit Code for Need to support youthful humankind against mental health ailments.

PROJECTS

Visualizing the Mental Health Standing of India   December 2021 – February 2022

- Analyzed the prevalence of mental health disorders at the state level, with reflectance on the most affected demographic groups and to assist recognize the most prevalent mental disorder among diverse age groups and gender to find relative prevalence of each mental disorder using multiple heat-maps & various additional data analytics procedures.
- **Tools Used:** Python, NumPy, Plotly
- Developed as part of Fundamentals of Computational Thinking (FM111) Course at Plaksha University in a Group of 4 students.

Brain Tumor Diagnosis using MRI Scans via Google Cloud   July 2020 – August 2022

- Developed a computational paradigm using Google Cloud AutoML Vision module that detects 3 of the most invariably misdiagnosed brain tumours: Glioma, Meningioma & Pituitary Adenoma with 95.69% precision using 3000+ existing patient's MRI Scans.
- Analyzed the annual likelihood frequency of brain tumor misdiagnosis and authored a research paper incorporating real-time data points & precision scores for the analysis.
- **Tools Used:** Google Cloud Platform – Cloud Vision, Python

HONORS AND AWARDS

2020 Cohort   Stanford Pre-Collegiate Summer Institutes
2019 & 2021   Maratha Community Award for Excellence
2019   CBSE Excellence Award

SKILLS AND INTERESTS

Languages: English, Marathi, Hindi
Technical: Python, C++, HTML, CSS, JavaScript, Research, Git, Google Cloud Platform, Microsoft & G Suite
Hobbies: Non-Fictional Reading, Film-Making, Investing