

# 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, Infinity 2.0 (Student Ambassador, 2022-23)

Relevant Coursework: Programming and Data Structures, Fundamentals of Computational Thinking, Design Thinking

(Full coursework available [atharvasawant.com/coursework.html](https://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: Google Developers Group – Pune (Student Developer Advocate), Analogtomy (Editor-in-Chief), Namaste Venture (Project Head), Mathematics & Physics Tutor, Mental Health Advocate, Environmental Activist

### Rotary English Medium School, Class of 2019

Khed, Maharashtra, India

All India Secondary School Examination (AISSE): 96.4%

Activities: Drama Club (President, Stage Actor & Playwright), Lead Organizer for Social Events, Mathematics Tutor, Web Developer, Co-Captain of 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 group 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 Auto ML Vision

July 2020 - August 2020

- 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 tumour misdiagnosis and authored a research paper incorporating real-time data points & precision scores of 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

Rank 7<sup>th</sup>

CBSE Excellence Award

## SKILLS AND INTERESTS

**Languages:** English, Hindi, Marathi

**Technical:** Python, C++, HTML, CSS, JavaScript, Research, Git, Google Cloud Platform, Microsoft & G Suite

**Hobbies:** Non-Fictional Reading, Investing, Film-Making