



# Harsh Mishra

B.Tech – Electronics & Communication Engineering - IIT, Dhanbad

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## PROJECTS

I have been advocating for Open Source Software since 2019. Most of my projects are hosted on my GitHub profile.

[github.com/MiHarsh](https://github.com/MiHarsh)

### DevDoot NGO

(May 2021–June 2021)

*A WebApp for easing request raising and handling.*

- Features Developed included easy portal for request raising, auto-posting on Facebook / Twitter handles, auto assigning of volunteers, mobile OTP verification, writing success story, Update / Archive request status.
- Tech Stack : Flask , Firebase, Javascript, HTML, CSS, 2factor, SMTP, Facebook Developer console

### AUTOVSB

(June 2021)

*An Automated script to alert and book vaccine slots in India.*

- A script based on browser automation that continuously scraps COVID-19 vaccine slot data, alerts you and books it for you when it's available using browser automation.
- Tech Stacks - Puppeteer, Javascript

### Pytorch Fanatics

(June 2020)

*A Computer Vision Library for Classification Tasks*

- Created a library that includes functions such as data loading, LR Finder, Early Stopping, Logger, Saver, etc.
- Tech Stacks - Python, Pytorch

## EXPERIENCES

### Google Summer Of Code (GSoc) 2021

(Summer 2021 )

- Improving User Experience of Frontend and enabling user Personalisation.
- I'll be implementing features such as hide/unhide posts, report posts, enhancing the current implementation of Fake News Detection API, integrating fact-checkers, automated CI/CD tests, deployment and improving UI.
- Tech Stacks - Python, Javascript, Flask, DynamoDB, puppeteer, HTML, CSS

[|GSoc Proposal](#) | [Gitlab](#) | [Gitlab-API](#)

### Microsoft Engage (Teams Clone)

( June 2021 - July 2021)

- Implemented a Video Chat app (Microsoft Teams Clone), which supports basic functionalities such as video calling, messaging, screen sharing, admit requests.
- Added Custom Functionalities such as **Have-a-break**
- Tech Stacks: socket.io, WebRTC, nodejs, expressjs, HTML, CSS, Javascript

### Research Intern

(UiT The Arctic University of Norway )

(Aug 2020– Nov 2020)

- Researched and Proposed an approach for efficient training of Autonomous Vehicle motion prediction models, beating 904 submissions by using only 10% of the total dataset.

## OPEN-SOURCE CONTRIBUTIONS

- Fixed out of memory error while using update\_bn in SWA (Pytorch) [[Merged](#)]
- Added auto-discovery of .test files [[Open](#)]

## EDUCATION

**Indian Institute of Technology (ISM), Dhanbad — (B.Tech ) Electronics and Communication Engineering**

JULY 2019 - MAY 2023 CGPA - 8.7769

## SKILLS

- Languages: Python, Javascript, C /C++
- Machine Learning: Computer Vision, NLP, Neural Networks.
- Libraries: Pytorch, OpenCV, scikit-learn, Numpy, Pandas, Fast Ai, SQLite, Puppeteer, Socketio
- Development: Node.js, Flask, SQL, Firebase, DynamoDB, MongoDB databases

## ACHIEVEMENTS

- Secured 2nd Rank in KDD Fake News Detection (Microsoft), Kaggle.
- Secured Bronze Medal in Inter IIT-Tech Meet 2021.
- Secured 6th Rank in SIIM-ISIC Melanoma Classification Competition, Kaggle.
- Secured 31st Rank in Lyft Autonomous Vehicle motion prediction.
- Secured 138th Rank in MOA competition Kaggle.

## VOLUNTEER EXPERIENCE

- [Winter Of Code 3.0](#) :
  - o Mentored a total of 50+ students for Machine Learning Projects, and overall a total of 180+ students of IIT Dhanbad.
- [CyberLabs](#) :
  - o We organize workshops, hands-on sessions (Git, Python, Android, Linux etc.), organize seminars for Open Source Programs.
- Member of CyberLabs (Machine Learning Division), RoboISM, Data-Science Club IIT (ISM) Dhanbad

## EXTRACURRICULAR ACTIVITIES

- Music
- Badminton