

# PRATHAM SARAF

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## EDUCATION

### Indian Institute of Information Technology

BTech Computer Science

Bhopal

December 2021 - Present

#### Relevant Coursework

- Object Oriented Programming
- Discrete Structures
- Advanced Engineering Maths
- Object Oriented Programming

## WORK EXPERIENCE

### Acciolbis

Machine Learning Intern

September 2022 - November 2022

- Reduced document retrieval time to under 5 seconds by utilizing **Semantic searching** and scoring the document while storing in memory
- Inferred the models using google cloud platform
- Evaluated open source text to image models and their variants

### Red Positive

Machine Learning Intern

May 2022 - October 2022

- Collected a total of **370 thousand** sentences in 37 different dialects of India with approx **10 thousand** sentence in each language to build a language detection system
- Used **35 Indian languages** for document translation model which took advantage of parallel corpora

## PROJECTS

### Books recommendation system

Github link for project [↗](#) Kaggle Notebook [↗](#)

May 2022 - June 2022

- Utilized **2.36 million** book's data with 29 features each and **229 million** user interactions with 4 features each to generate curated recommendations. Employed **MongoDB** to handle user registration and recommendation storage
- Suggested top 100 books using **Nearest Neighbour** and the **tf-idf vector** for document searching. The front end is built with **Flask**.

*Skills Used: Python, MongoDB, Flask, Sk-Learn*

### Self driving car simulator

Github link for project [↗](#) Kaggle Notebook [↗](#)

August 2022

- Gathered **145 thousand photos** which consisted of **3 perspectives** using automobile simulation. It included the braking speed, throttle position, and degree of steering wheel rotation
- Trained model based on **Dave 2 system** which comprised of 5 convolutional layers and 3 fully linked layers; Data augmentation was done as well

*Skills Used: Python, CNN, Data collection, Pytorch*

## POSITION OF RESPONSIBILITY

### GNU/Linux Users Club

ML-OPS lead

IIIT Bhopal

August 2022 - Present

### Google Developer Student Clubs(GDSC)

Assitant AI-ML lead

IIIT Bhopal

August 2022 - Present

### Kratigence

Core Team Member

IIIT Bhopal

August 2022 - Present

## SKILLS

Programming Languages:	Python, C++ ,C, R,
Platforms:	GitHub (with Github Actions), GitLab, Git
Database Management Systems:	MySQL , PostgreSQL, Mongo-DB
Web Development:	HTML , CSS (Bootstrap and Tailwind) , JavaScript ,Babel JS
Libraries / Frameworks:	Flask , Django, FastAPI, Pytorch, Tensorflow
Soft Skills:	Leadership, Communication Skills, Organised
Languages:	German , English

## ACHIEVEMENTS

### Runner Up

*certificate* [↗](#)

### HACK WITH GDSC IIITB: HACKATHON Google Developer Student Club

Won second prize in Intra IIIT development contest conducted by GDSC IIIT Bhopal for creating a password manager.

*Skills Used: Python, MySQL, Encryption Methods (MD5Sum)*

Aug 2022

CERTIFICATES

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<b>CS50's Introduction to Programming with Python</b> (Course Link <a href="#">↗</a> )	March 2022 - May 2022
<b>Machine Learning Specialization by Deeplearning.ai</b> (Course Link <a href="#">↗</a> )	April 2022 - July 2022
<b>IBM Data Science Professional Certificate</b> (Course Link <a href="#">↗</a> )	July 2022 - Present
<b>Deep Learning Specialization by Deeplearning.ai</b> Course Link <a href="#">↗</a>	April 2022 - Present