

PRATHAM SARAF

India · prathammsaraf@gmail.com · +91 8982597809 · GitHub · Kaggle · Medium · Portfolio · LinkedIn

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

September 2022 - November 2022

Machine Learning Intern [↗](#) LOR [↗](#)

- Improved document retrieval time to under 5 seconds through semantic searching and scoring, and optimized memory storage.
- Utilized GCP to infer models and evaluated various open source text to image models and their variants.

Red Positive

September 2022 - March 2023

Machine Learning Intern

- 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
- Built speech detection system for local Indian dialects which has an accuracy of over 90%

PROJECTS

Self driving car simulator

August 2022

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

- 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

Books recommendation system

May 2022 - June 2022

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

- 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

POSITION OF RESPONSIBILITY

GNU/Linux Users Club

IIIT Bhopal

ML-OPS lead

August 2022 - Present

Google Developer Student Clubs(GDSC)

IIIT Bhopal

Assitant AI-ML lead

August 2022 - Present

Kratigence

IIIT Bhopal

Core Team Member

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
Languges:	German , English

ACHIEVEMENTS

Runner Up

HACK WITH GDSC IIITB: HACKATHON Google Developer Student Club

certificate [↗](#)

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)

August 2022

CERTIFICATES

CS50's Introduction to Programming with Python (Course Link [↗](#))

March 2022 - May 2022

Machine Learning Specialization by Deeplearning.ai (Course Link [↗](#))

April 2022 - July 2022

Deep Learning Specialization by Deeplearning.ai Course Link [↗](#)

April 2022 - Present