

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

RESEARCH EXPERIENCE

Indian Institute of Information Technology, Bhopal

November 2022-Present

Research Intern under Prof (Dr.) Bhupendra Singh Kirar

- Developed and implemented Neural Networks for the research paper, which involved utilizing convolutional neural networks and transfer learning techniques.
- Analyzed the performance of the classifier using various evaluation metrics, including accuracy and specificity, and presented the findings in the research paper.

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.
- Employed GCP to infer models and evaluated various open source text to image models and their variants.

PROJECTS

MultiModalGNN-SentimentAnalysis

April 2023 - Present

- Developed a **MultiModalGNN-SentimentAnalysis** model using variety of models **Graph Attention Mechanism**, BERT, and VGG16 , **Graph Neural Network** to perform sentiment analysis on a multimodal dataset.
- Created a graph structure using the extracted features and achieved an accuracy of 60% The model utilized an **ensemble of neural networks** to leverage both image and text information for accurate sentiment classification.

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

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
Languages:	German , English

ACHIEVEMENTS

Runner Up

HACK WITH GDSC IIITB: HACKATHON Google Developer Student Club

certificate [LOR](#)

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

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

March 2022 - May 2022

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

April 2022 - July 2022

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

April 2022 - Present