VIBHUTI DABAS

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EDUCATION

- **Bachelor of Technology in Information Technology**
  Indira Gandhi Delhi Technical University for Women –**8.54 CGPA**   (May 2024)
- **All India Senior School Certificate Exam, (CBSE)**
  G.D. Goenka Public School, Delhi, India – **90%**   (April 2020)

PUBLICATION

- **University Auto Reply FAQ Chatbot Using NLP and Neural Networks**
  Accepted and published in the Artificial Intelligence Application (AIA) journal. The study proposes a DL chatbot for addressing common doubts of university students.

EXPERIENCE

- **Data Science Intern at CRUV**   (September-December 2023)

  • Collaborating with food apps to capture screenshots of the shopping cart, extracting information such as food item names, customizations, and prices to propose more cost-effective options.

  • Associating menu items with user-uploaded reviews and videos. Employing the fuzzy ratio technique to identify menu items within reviews and using zero-shot image classification to pinpoint them in videos.

- **Machine Learning Intern at Metridash**   (April-July 2023)
  Retrieved social media profile data using APIs and performed sentiment analysis to determine the emotional tone of the collected data, such as whether it is positive, negative, or neutral.

- **Machine Learning Intern at VLink**   (June-July 2022)
  Made live representations of the counter of any given duration, a feature instrumental in monitoring the movements & postures assumed during therapeutic sessions of patients with knee injuries such as dancers, military personnel, accident victims, etc.

PROJECTS

- **Tracking illegal drug markets on the darknet**
  Working on a web crawling project with the Narcotics Control Bureau (NCB) to track and update lists of active illegal drug markets on the darknet and automatically drop the inactive ones.

- **RGB images to Hyperspectral Images using CNN**
  The lack of Hyperspectral data limits us from exploring and understanding the world in a better way. This project helps us create more data between 400nm to 700nm with 10 step sizes (31 bands).

- **Voice Cloning to generate speech on a given text**
  Used SV2TTS a deep learning framework where one creates a digital representation of a voice from a few seconds of audio, this representation is later used as a reference to generate speech given arbitrary text.

- **Freshers' query Chatbot**
  Created a chatbot for answering queries, ranging over a spectrum of topics a student could be curious about. This is a user-friendly chatbot built using NLP and DL (Bi-LSTM model).

POSITION OF RESPONSIBILITY

- **Associate – Media Team of Taarangana Society**
  In charge of coordinating head cords and cords to produce teasers, and hype videos for all the festivals organized by the society.
- **Developer – Celestial Biscuit Society'22**
  Responsible for developing a team chatbot to answer all possible freshers' queries.
- **Mentor - Protege Society'22**
  Mentoring freshmen as a part of an 8-week cohort, helping her with DSA and AI basics.
- **Volunteer - Sakhsam Right to Write'22**
  Volunteered in a competition "Right to Write" for students with visual impairment, a workshop on assistive technology solutions for education.

ARTIFICIAL INTELLIGENCE SKILLS

- **Machine Learning**: Regression, Clustering, and basics of classification.

- **Deep Learning**: OpenCV, image classification using Keras, Tensorflow, SpaCy, NLTK, and GANs.

TECHNICAL SKILLS

- **Programming Languages:** Python, R, C++, GoLang
- **Version Control**: GitHub
- **Operating Systems**: Windows, Linux
- **Web framework:** Flask, HTML, CSS, Bootstrap4
- **AWS Services**