

# Dhaval Taunk

Portfolio: [dhavaltaunk08.github.io](https://github.com/dhavaltaunk08)

Github: [github.com/DhavalTaunk08](https://github.com/DhavalTaunk08)

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## EDUCATION

- International Institute of Information Technology** Hyderabad, Telangana, India  
*MS by Research - Computer Science and Engineering; CGPA: 10/10* Aug 2021 - Present
- Indian Institute of Information Technology, Design and Manufacturing** Jabalpur, M.P., India  
*Bachelors of Technology - Computer Science and Engineering; CGPA: 7.2/10* Aug 2016 - June 2020

## EXPERIENCE

- Yes Bank**  
*Data Scientist* Aug 2020 - July 2021
  - Industry and Sub-industry Classification:** The project aims to identify potential small scale industries as customers and help them in growing their business.
  - Loyalty Rewards Program:** Worked on Loyalty Rewards program which aimed at awarding reward points to customers based on their transactions and given set of rules.
- Jio Haptik Technologies Limited**  
*Machine Learning Intern* May 2019 - Nov 2019
  - Project:** Build an intent detection system of chatbots by finetuning and testing several deep learning based models s like BiMPM, ABCNN, BERT, Siamese based networks, USE, ULMfit, tf-idf etc.
  - Outcome:** Improved bot's performance by using ULMfit and tf-idf and thereby leading to a 13% (approx.) rise in accuracy and an enhanced customer experience.
- IIT Guwahati**  
*Summer Research Intern* May 2018 - July 2018
  - Project:** Implemented Gender Classification by using deep neural networks in live video streaming by training 3 different models on image, audio and video dataset.
  - Outcome:** The achieved accuracy of models is 87.4%, 98.7% and 68.4% for the image, audio files and video files respectively.

## SKILLS SUMMARY

- Skills:** Python, Deep Learning, Machine Learning, PyTorch, Keras, Natural Language Processing, Algorithms, Scikit-Learn, MySQL

## PROJECTS

- Wikipedia Search Engine:** Built a search engine from scratch on 84GB of Wikipedia dump. Performed indexing and created searching functionality. Tech: Python, XML, NLTK, PyStemmer.
- Question Answering using CommonSense Reasoning:** Built a Question Answering system using datasets like CSQA, OBQA, MedQA by training language models and graph neural networks simultaneously.
- Text Segmentation in images using Auto-encoders:** Performed text segmentation in the image using Auto-encoders. For training purpose, KAIST Text Scene dataset was used. Tech: Python, Keras, OpenCV.
- Salient Object Detection:** Implemented a paper called *Deep Embedding Features for Salient Object Detection* to perform salient object detection in images.

## PUBLICATIONS

- Dhaval Taunk, Shivprasad Sagare, Anupam Patil, Shivansh Subramanian, Manish Gupta, and Vasudeva Varma. *XWikiGen: Cross-lingual Summarization for Encyclopedic Text Generation in Low Resource Languages*. In *Companion Proceedings of the Web Conference 2023*, WWW '23, New York, NY, USA, 2023. Association for Computing Machinery
- Dhaval Taunk, Lakshya Khanna, Pavan Kandru, Vasudeva Varma, Charu Sharma, and Makarand Tapaswi. *GrapeQA: GGraph Augmentation and Pruning to Enhance Question-Answering*. In *Companion Proceedings of the Web Conference 2023*, NLP4KGC (WWW '23), New York, NY, USA, 2023. Association for Computing Machinery

## VOLUNTEER EXPERIENCE

- Writer @ AnalyticsVidhya/Medium:** Wrote technical articles related to machine learning, deep learning etc. fields for Analytics Vidhya publication on [Medium](https://medium.com/@dhavaltaunk08)
- Contributor @ HuggingFace's Transformers:** Contributed 2 Community notebooks in HuggingFace's [Transformers](https://huggingface.co/DhavalTaunk08) repository related to multi-class and multi-label text classification