

Bhavik Ardeshta

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PUBLICATIONS

- **GujaratiNLP Suite: novel resources for Gujarati Question Answering system:** The first Gujarati benchmarking dataset for QA downstream task. Paper is under-process in Springer Journal for publication.
- **Cascading Adaptors to Leverage English Data to Improve Performance of Question Answering for Low-Resource Languages:** Paper was published at the International Conference of Natural Language Processing (ICON-2022) hosted by ACL Anthology. arxiv.org

CONTRIBUTIONS

- **Hugging Face:** To investigate the effectiveness of multilingual pretrained transformer models in improving the performance of QA systems in a low-resource setup. I have fine-tuned the mBERT and XLM-R transformer models for seven different languages and published 13 models in HuggingFace. huggingface.com/
- **Ivy - The Unified Machine Learning Framework:** Added generic input argument to functions of Ivy, Change the docstring of the function, Run all tests for the same of the nest function. [#PR-2002](#)

EXPERIENCE

- **Heliconia Solutions** Remote
Software Associate Intern Dec 2020 - April 2021
 - **PDFConverter Tool:** Developed the Rotate, Merge, Split, Convert Extension, and Crop Pdf functionality and deployed to the realtime AWS EC2 to the production. *Django, Flask, React.js, and EC2*
 - **CanvaQuote Designer:** Creatively.io provides features to create their own canvas and with the help of its beautifully designed UI user can share to the world. Worked with Editor and APIs pipelining team. *React.js, Nodejs, MongoDB, and Auth*
 - **Python Automation Team:** Developed the five utility automation task using python for various state-of-the-art of ML team.

PROJECTS

- **Visual QA MultiModular Architecture (Transformer, PyTorch, HuggingFace, Computer Vision, NLP):** It emphasizes the *featurization of image and question, feature fusion, and answer generation for the multimodal system for VisioLinguistic tasks*, using different text and vision transformers to evaluate the efficacy of QA downstream task using a multimodular framework. github.com/visual-qa
- **Question Answering for Low-Resource Languages (NLP, Language Modeling, Adapters, HuggingFace):** We trained four variants of adapter combinations for - *Hindi, Arabic, German, Spanish, English, Vietnamese, and Simplified Chinese languages*. We demonstrated that by using the transformer model with the multi-task adapters, the performance can be improved for the downstream task. github.com/qa-low-resource

SERVICE AND AWARDS

- **Kaggle 3x-Expert:** Dataset, Notebook, and Discussion
- **Author at Becoming Human: Artificial Intelligence Magazine:** featured on Google - My neoteric article *Basic intuition of Conversational Question Answering Systems (CQA) and Semantic Alignment of Linguistic and Visual Understanding using Multi-modal Transformer*.
- **Top-10% at American Express Default Prediction Hackathon:** September, 2022
- **Open-Source Contributor to various organizations:** HuggingFace, AdapterHub, Mozilla

EDUCATION

- **Dharmsinh Desai University** Gujarat, India
Bachelor of Technology - Computer Science; GPA: 8.9 2019 - 2023
Courses: Natural Language Processing, Image Processing, Data Structures Algorithms, Database, Big-Data Analysis

SKILLS

- **Technologies:** Deep Learning, NLP, NLU, Image Processing, Database Management
- **Languages:** Python, C++, JavaScript, SQL, MongoDB, Bash
- **Frameworks:** PyTorch, TensorFlow, JAX, Keras, Django/Flask, MERN
- **Tools:** HuggingFace, Docker, GIT, PostgreSQL, MySQL, SQLite
- **Platforms:** AWS, Linux, Windows, AWS, AdapterHub, Kaggle, Colab
- **Soft Skills:** Growth Mindset, Emotional Intelligence, Active Listening, Work Ethic

VOLUNTEER EXPERIENCE

- **Team Coordinator at Anurakti Foundation** Gujarat, India
We have a total of 8 camps in cities with 50+ volunteers are teaching 300+ students. Oct 2019 - Present
- **Core Team Lead Google Developers Clubs** Gujarat, India
Organized events, conducted workshops and delivered workshops reaching over 7000 developers. Sep 2020 - Present