Bhumik Varu

Associate Software Engineer at "Kore.ai"

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WORK EXPERIENCE

Associate Software Engineer
Kore.ai

07/2020 - Present   *Hyderabad*

Achievements/Tasks

- Data Optimization (Cleaning, Formatting, Structuring) to enhance the training accuracy to of utterance datasets.
- Design and Develop the backend APIs and database schemas for Chatbots to consume to ensure complete coverage.
- Third party collaborations with customers, and vendors along with Services Integration(RESTful and SOAP) mangement on Banking Domains.

Machine Learning Intern
L&T Technology Services

01/2020 - 03/2020   *Bangalore*

Achievements/Tasks

- Developed a UI based internal solution for collecting data for LTTS OCR, thus reducing the data collection efforts to 30% of original time.
- Worked on Ensembled CNN model to design and develop an OCR on engineering handwritten documents which performs nearly 10% better than its benchmark "tesseract".

Machine Learning Research Intern
IIT Indore

05/2019 - 07/2019

Achievements/Tasks

- Worked on Early stage detection of Alzheimer's disease with MRI scan images, with transfer Learning models achieving an accuracy score of 86% on the balanced dataset of 3600 images. (Data source:http://adni.loni.usc.edu/)

EDUCATION

B.Tech. in Computer Science and Engineering
National Institute of Science and Technology

08/2016 - 08/2020   *8.65 CGPA*

Higher Secondary
DAV public school, gandhinagar

05/2014 - 05/2016   *93.60%*

SKILLS

NodeJs MongoDB Python React-Native Computer Vision Supervised Machine Learning Javascript RESTAPIs MySql C++ HTML CSS

PERSONAL PROJECTS

Concrete Crack detection and Health monitoring for building structures using Computer Vision and Machine Learning

- Crack localization and detection using opencv module and transfer learning technique.
- Removing the Environmental Biases, such as lighting condition which has been known to affect the CNN based model, to achieve nearly the same result for images captured in different lightening condition.
- Published at: https://link.springer.com/chapter/10.1007/978-981-16-2543-5_40

PUBLICATIONS/ACHIEVEMENTS

Emotional analysis towards reasoning about attitudes of customers. Published in IEEE xplore, https://ieeexplore.ieee.org/abstract/document/8745961

Invited speaker at Odisha technical conclave-2019

Finalist, DDM - IT national quiz-2019

CCL KE LAL scholarship, by CCL, Coal India