

RITESH YADAV

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EDUCATION

Jaypee University of Engineering and Technology, Guna 2019-2023

Bachelor's of Technology (B Tech) Computer Science and Engineering

SKILLS AND KNOWLEDGE AREAS

Development Tools	Expertise
Python, Machine Learning, Deep Learning, Statistics, PySpark	Expert
Android, Mobile App development	Intermediate
JavaScript, MySQL, SQLite, MongoDB	Intermediate
Dev-Ops, Docker, Kubernetes, Deployment, CI/CD, MLflow, Kubeflow, DVC, Git	Intermediate
Monitoring, Prometheus	Intermediate
NLP, Computer Vision(Tensorflow, Keras, Pytorch)	Expert
Data Structure and Algorithms	Intermediate
AWS Sagemaker, BeanStalk,Heroku	Intermediate

PROJECT SUMMARY

Generating Video Captions Using LSTM and Keras

March 2021-April 2021

- Video Captioning is Encoder-Decoder based architecture based on Sequence Learning.
- The model uses multiple LSTM cell's on both the encoder and decoder side.
- It takes Video as an Input and generates a caption based on the event described.
- The Language Model was trained on MSVD(Microsoft Video Description Corpus), the dataset consist of 120k descriptions for more than 2000 short videos.

Technology Stack: Python, Tensorflow, Keras, NLP, Computer Vision

Megatron ChatBot

February 2021-March 2021

Megatron is a Full-Fledged ChatBot easy to integrate, ease to use and update, Megatron accepts various types of input like text and speech. Megatron is a side project of Ineuron.ai, where I have contributed to various components in the ChatBot Building.

The Megatron chatbot is built to reduce the load from the Skype Support Team of Ineuron.ai, as Ineuron.ai support team is made to answer the queries regarding their products from customers but due to overwhelming queries the Support team could not able to catch up with everyone.

Roles and Responsibilities:

I have worked on building a component of Intent Classification and State Tracking. These two components are build separately and then combined to mainstream of the chatbot pipeline.

Technology Stack: Python, NLU, NLP, MongoDB, Language Modelling

Wheat Head Detection Using YoloV4 and Faster RCNN

January 2021-February 2021

- Used YoloV4 and Faster RCNN to Detect Wheat Heads in a Field.
- The project involves the building of an Efficient Object Detection model which is capable of detecting wheat heads.
- For this Project I have tested two SOTA Object Detection models, For Faster RCNN images are converted into TFrecords and then processed. For YoloV4 model is trained over wheat images and achieved better results/ MAP score then Faster RCNN.

Technology Stack: Python, Tensorflow Object Detection, Computer Vision, YoloV4

TEACHING AND VOLUNTEERING EXPERIENCE

- Established Madhya Pradesh First Data Science Community, PyData Guna
- Mentored 100+ students in PyData, Guna on Data Science, Development and Cloud.
- Mentored more than 50 students in The Uplift Program by GirlScript Education on Android App Development.

LEADERSHIP AND AWARDS

- Kaggle Notebook Master Ranked 145th among 165k Fellow Kagglers.
- **Certification and Courses** : Deep Learning Specialization, Natural Language Processing Specialization by DeepLearning.ai, Andrew NG.
- Ranked 283rd in VinBigData Chest Abnormalities Detection Competition by Kaggle among 1,277 competitors.

STRENGTHS

- **Positive Attitude:** To progress positively under all circumstances with conviction and maturity in approach.
- **Adaptability and Flexibility:** To adapt accordingly under the application of adverse or pressure conditions without deviating from critical to quality concerns.
- **Enthusiasm for Learning:** Endlessly strives to learn through different activities.

PERSONAL DOSSIER

Date of Birth : 3rd November 2000

Sex : Male

Father's Name : Mr. Rajesh Singh

Mother's Name : Ms. Usha Yadav

Nationality : Indian
