GAURAV JAIN

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PUBLICATION

Flynet – Neural Network Model for Automatic Building Detection from Satellite Images; The *Journal of the Indian Society of Remote Sensing,* Spinger. (Accepted)

EXPERIENCE

Machine Learning Team Lead New Delhi

Aftershoot Feb 2022 – Ongoing

- Aftershoot is a software company have computer vision powered software for photographers.
- Joined as a first full time employee, now scaled the business to 2Mn ARR and ML team to 10.
- Leading machine learning team & building computer vision solutions based on object detection, classification, statistics leading algorithms, segmentation and object recognition.
- Developed the face detection algorithm which achieves >99% accuracy even on image with resolution of 5k.
- Trained new ML models with better accuracy and faster inference time.

Siemens Industry Software Pune

Intern June 2021 – Jan 2022

- Handled build infrastructure and improved CI/CD pipeline for faster and more efficient product delivery.
- Deployed a ML model to predict the estimated build time require, helped increase developer efficiency.
- Developed a chatbot for internal use to help resolve queries from developer instantly.

Bosch India Ltd. Jaipur

Graduate Apprentice Oct. 2018 – Oct. 2019

- Managed the production line; machine, parts, manpower planning.
- Semi-automated the MIS reporting in excel, saved more than 1 hour of manpower time.
- Successfully eliminated the waste of waiting and processing in the production line by re-designed the coolant return tank of a machine and saved Rs 100k annually.

EDUCATION

M. Tech — Artificial Intelligence Sept. 2020 – May 2022

National Institute of Technology (MANIT) Bhopal (462003)

B. Tech — Mechanical Engg. Aug 2014 – May 2018

University Institute of Engg. and Technology Kurukshetra (136119)

PERSONAL PROJECTS

Portrait Me: Image Segmentation (computer vision):

Source Code

- A Deep learning-based web app to remove the background in the real time video and from the image, developed using Flask.
- Modify the U-NET architecture to achieve the accuracy of over 93% and Mean-IOU of over 80% on coco dataset.

Text Classification Amazon Data (NLP):

Source Code

- Feature engineered the raw data with 3 million datapoints to train a simple bag of words model for text classification with 10k classes.
- Trained different models like bow, TF-IDF and word2vec (pre trained word embeddings) models and achieve accuracy of 75% (close to SOTA Bert of that time).

Human Activity Recognition:

Source Code

- Built a Deep Learning classifier to classify between various physical activities performed by person in day-to-day life.
- Combination of CNN and LSTM gave astonishing precision and recall of around 99% on both training and validation data.

SKILLS

Problem solving, Critical thinking, Project management, Team management.

Machine learning, Data science, Computer vision, NLP, Exploratory data analysis, Statistics.

Python, Tensorflow, Keras, Pytorch, SQL, Flask,

AWS; EC2, Sagemaker, GCP