

Manish Kumar Singh

Contact: +919910371599, Email: manish.singh35200@gmail.com, LinkedIn: www.linkedin.com/in/manishsingh2015

SUMMARY

Highly Self-motivated and goal oriented professional committed to Excel at implementing Machine Learning Solutions to meet business requirements. Offers a 3.5 years of experience of Machine learning in python and additional 4 years of track record demonstrating strong analytical and problem-solving skills, computer proficiency and ability to lead projects from inception to completion.

- Exceptional capacity to learn new Subjects.
- Strong business understanding of the manufacturing and Machine learning to develop a mature solution.

EXPERIENCE

Data Scientist, Ofbusiness Pvt Ltd, Gurgaon

Aug 21 to Present

Tender Classification into 30 Categories with Active learning

Sept 22 to Present

- **Building application to classification tenders into 30 categorise.:** It uses 6 model in hirarchialy to classify tenders based on context (used s-Bert embedding) beating industry benchmark.
- **Active Learning Tools :** Used various tools including margin entropy and similarity to reduce active review efforts by 15-20 times. Also integrated Open-Source Tool Label Studio For Human-In-Loop Feature of active learning.

ML based Document processing Application:

Aug 21 to Nov 22

- **Designed ML based solutions for Document parsing :** Designed and built two different document parser, each running with multiple custom built ML model (2 NLP, 2 NLP + Image processing using Keras Functional API).
- **Deployed ML applications and Managing Production:** Both Application deployed on docker and performs multiprocessing for high throughput of 4K and 12K per day. Managing production for 1 year

Open Source Projects

Sept 19 to Aug 20

- **Object Detection:** Used Mask RCNN based transfer learning for object(pothole) detection from video recordings. It processes 1 km road in 10 mins. (GitHub: <https://github.com/manish-sin/betterroads>)
- **NLP:** Developed doc2vec based core for a Chabot, by transfer learning and integrated with Slack (GitHub: <https://github.com/manish-sin/Chatbot> for Slack)

Assistant Manager, Hero Motocorp Ltd

Jul 15 to July 21

- **Project Ideation:** Proposed detailed concept of using Machine learning 1) eliminate NVA in the brake Oil Filling Process 2) Helmet detection feature in vehicle
- **ML implementation.** Built an ML based python script for anomaly detection of a production machine with limited access.

SKILLS

- Cloud Services GCP/AWS,
- Web Scraping, Python, Deep learning, Tensorflow, Keras, NLP, CNN, Mask RCNN, clustering etc.
- GitHub, Docker, MLFlow, Streamlit, SQS, SBERT, Glove, LabelStudio

EDUCATION

- National Institute of Technology(NIT), Durgapur, Bachelors in Technology, Mechanical Engineering(2011-2015)

ACHIVEMENTS

- 4 Patent applied related to AI and New Product Developments (Assignee: Hero MotoCorp Ltd.)
- Lead Open Innovation Team at Hero MotoCorp Ltd
- First Team Captain of Collage's first SAE BAJA Team to build a four-wheeler Off-Road vehicle.