



# SAI MOHAN DALLI

ARTIFICIAL INTELLIGENCE ENGINEER

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Hannover, Germany



## ABOUT ME

Pursuing Master's in Engineering, Over time, I have found my interest in the field of Artificial Intelligence and started learning by working on interesting projects. I am looking for more challenging projects in companies to kick start my career and follow my dream.

## PROFESSIONAL SKILLS

PYTHON  
OpenCV  
PyTorch  
Tensor Flow (Keras)  
Scikit-Learn  
Pandas  
Numpy  
Matplotlib  
Plotly  
Streamlit  
Spacy  
Transformers  
HTML/ CSS  
Flask  
MATLAB

## PERSONAL SKILLS

Pair Programming  
Team Player  
Code Review  
Problem Solving

## LANGUAGES

English - C1  
German - A2  
Hindi - B2  
Telugu - Native

## MY INTERESTS

Playing Cricket and Volleyball  
Cooking  
Listening Music  
Swimming

## PROJECTS

### AI ON TOLL PLAZA



*Technologies use: OpenCV, YOLO, Tesseract (OCR), Python, SQL, and Google Colab.*

- The camera captures the frontal picture of the car and the YOLO detects the number plate.
- It draws a bounding box around the number plate using OpenCV and crops the image.
- The text is extracted from the cropped image using Tesseract and passed to the database.
- Tollgate opens by automatic if the number plate is active in the database.

### FACE MASK DETECTION



*Technologies used: PyTorch, Fastai, OpenCV, Python, Numpy, Cuda, and Google Colab.*

- Prepared a custom dataset by labeling the images of the mask, no mask, and bad mask.
- Built a pre-trained ResNet model on PyTorch and Fastai to predict the images.
- Applied a bounding box that captures the face using Haar cascades classifiers.
- Detected faces with masks, no masks, and bad masks on the webcam and videos.

### WEB SCRAPPING GOODREADS 1000 BEST BOOKS



*Technologies used: Python, Pandas, Numpy, BeautifulSoup, Streamlit, Matplotlib and Plotly.*

- Web Scrapped the top 1000 best books from Goodreads Website.
- Pre-processed the data for data evaluation and data visualisation.
- Deployed the complete data report with data interpretation on webpage.

### JANE STREET MARKET PREDICTION



*Technologies used: Python, Scikit-learn, Pandas, Numpy, Matplotlib, Seaborn and Plotly.*

- Imported the data and discovered the patterns by doing exploratory data analysis (EDA).
- Applied feature engineering techniques to extract new features from the data.
- Fit the Machine Learning models to predict the data and also to calculate the accuracy.

## ACADEMIC BACKGROUND

### STRIVE SCHOOL, GERMANY

*AI Engineering for Data Science (12/2020 - 06/2021)*

- Focused on Machine Learning, Deep Learning, Computer Vision, NLP, and Web Scrapping.
- Acquired advanced skills in Python and its associated libraries.
- Knowledge sharing through Pair Programming and self-assessment on individual projects.

### LEIBNIZ UNIVERSITY, GERMANY

*Masters in Computational Methods in Engineering (05/2018 - Present)*

- Focused on Fluid Mechanics, Composite Materials, FEM, Dynamics, and Vibrations.
- Fluid flow analysis using Matlab.
- Material Simulation of composite materials using ANSYS.