# SNEHILA
## Machine Learning Engineer

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📍 Bengaluru

## SUMMARY

Passionate machine learning professional and data-driven analyst with the ability to apply ML techniques and leverage algorithms to solve real-world problems in the sector of Automotive. Established ability in deploying effective predictive models on varied datasets. Possessing strong attention to detail and an ability to solve complex problems.

## KEY SKILLS

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|---|---|
| ML Algorithms | Quantitative Analysis |
| Exploratory Data Analysis | Model Development |
| Data Visualization | Performance and metric Evaluation |

## TECHNICAL SKILLS

- **Tools:** Anaconda, Jupyter Notebook, RStudio, Linux, Windows, Db2, Watson Studio
- **Languages:** Python, C, C++, SQL
- **Packages:** Scikit-Learn, NumPy, SciPy, Pandas, Matplotlib, Folium, Seaborn, OpenCV, PyTorch
- **ML/DL Algorithms:** Regression, Classification, Clustering algorithms, Image classification, Image segmentation algorithms

## PROFESSIONAL EXPERIENCE

### Machine Learning Engineer
**TATA Consultancy Services Ltd.**

Aug '19 - Present
Bengaluru, IN

**Annotation as a Service for a UK-based agricultural machinery manufacturer|CNH Industrial**
- Trained a Pytorch based full image, semantic segmentation model, to automate the annotation process on agricultural dataset and hence reduce the manual annotation effort and time consumption.
- Created charts in Jupyter Notebook to perform analysis & visualize data using Matplotlib.

**Traffic Sign and Traffic Light Detection for a German, Japan-based automaker|ZF Friedrichshafen, Toyota**
- Data Analysis, Data Preparation and training state of the art Object Detection Model, Evaluating model performance and analyzing how to improve performance to reduce human involvement.
- Implemented classification and detection algorithms for the classification of a large number of traffic signs from different countries' classes consisting of non-uniformity.
- Created a new process for the use cases of categorization of traffic sign classes as relevant or not relevant to the ego vehicle using road lanes information.

**Real-time Pothole Detection|In-house project**
- Implemented a real-time instance segmentation for the detection of potholes using YOLACT.

## EDUCATION

### B.E. in Computer Science and Engineering
**K.L.S. Gogte Institute of Technology, Belagavi | CGPA - 8.29**

Aug '15 - Aug '19
Belagavi, IN

- **Course Modules:**
  - ° Basics of Python | Pandas for importing and data pre-processing
  - ° Numpy for Statistical Analysis | Matplotlib for Data Visualization | Basics of R
  - ° Machine Learning | Supervised Vs Unsupervised Learning

## CERTIFICATIONS/INTERNSHIP

- **IBM Professional Data Science Certification** | Coursera
- **Machine Learning Certification** | Coursera
- 4 weeks internship on Formal Verification of Software Systems at MCSRDC, HAL Bengaluru | Jul '18

## ADDITIONAL INFORMATION

- **Languages:** English (Fluent) and Hindi (Native)