



# Lakshmmi Monicca S

Senior Software Engineer (AI/ML)

## LINKEDIN

<https://www.linkedin.com/in/lakshmmi-monicca-s-a29a9021b/>

## GITHUB

<https://github.com/LakshmmiMonicca>

## EDUCATION

**MCA (2017-2019)**

**BCA (2014-2017)**

## SKILLS

- Python (NumPy, Pandas)
- SQL
- Machine Learning Algorithm
- *Data Visualization:* Excel, Matplotlib, Power BI, Seaborn, Scikit-Learn, Keras.
- *AL Algorithm training:* OpenCV, Image Processing, PyTorch, TensorFlow
- Generative AI
- Supervised & Unsupervised Learning, CNN, RNN.
- Docker
- NLP

## PROJECT EXPERIENCE (August 2022 - August 2023)

### II TM Advanced Professional Programming with Masterdata Science

- Machine Learning Model building (Classification, Regression and Clustering model)

#### Responsibility

- Clean and preprocess large datasets to ensure high-quality data for machine learning model training.
- Perform exploratory data analysis (EDA) to identify patterns, outliers, and data inconsistencies and handle missing data, outlier detection, and normalization processes to improve model performance.
- Machine Learning: Proficient in developing machine learning models using Python (scikit-learn, TensorFlow, Keras), including supervised and unsupervised learning techniques.
- Model Optimization: Experienced in performing hyperparameter tuning using techniques like Grid Search, Random Search, and Bayesian Optimization to improve model performance.
- Test and validate data to ensure it meets the requirements for machine learning model.

Tech Stack:

Python (Matplotlib, Pandas), Model Building, Machine Learning Algorithm.

## CERTIFICATE

**IIT M Advance Professional programming with Master data science Program**

*Certificate Link:*

<https://www.guvi.in/certificate?id=X1A67P30s3w8Z3465o>

## WORK EXPERIENCE

**Ford (August 2023 – Present)**

Senior Software Engineer

#### Responsibility

- Automated the annotation process using advanced AI algorithms, improving efficiency and accuracy in data labelling and Implemented AI-based annotation techniques for image and video data used in training AI models.

## CONTACT

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## Spot Award Recognition

— FORD (2024)

✚ Recognized for designing and developing an automated AI-based annotation tool, significantly improving efficiency and accuracy in data labeling processes.

✚ The tool reduced manual annotation time by 75%, speeding up the overall project timeline and improving data quality for training machine learning models.

✚ Leveraged computer vision and NLP techniques to automate data annotation, enhancing productivity and reducing human error.

□ Collaborated with cross-functional teams to understand annotation requirements and refine AI model inputs.

□ Developed and optimized algorithms for selecting relevant training data to improve machine learning model performance.

□ Designed and implemented a user-friendly graphical user interface (GUI) for automatic image annotation in image processing tasks.

□ Ensured the quality and consistency of annotated data by conducting regular reviews and improvements.

□ Optimized AI algorithms for scalability and real-time processing of large datasets.

□ Conducted performance tuning on the AI annotation system to reduce latency and increase throughput.

□ Worked closely with QA teams to ensure the integrity and accuracy of annotated datasets used for model training.

## HCL Technologies (April 2022 – August 2023)

Software Engineer

### Responsibility

□ Developed a dynamic, interactive dashboard in Power BI for data visualization and reporting.

□ Integrated various data sources, including databases and APIs, to provide real-time insights into key metrics.

□ **Database Management:** Experienced in designing, creating, and managing relational databases using SQL.

□ **SQL Functions:** Proficient in creating and maintaining databases, and performing CRUD (Create, Read, Update, Delete) operations, including writing stored procedures and functions to manage data.

□ Collaborated with business analysts to understand requirements and design customized reports and visualizations.

□ Built automated data transformation processes using Power Query to clean, reshape, and aggregate data.

□ Enhanced dashboard performance by optimizing DAX queries and implementing efficient data models.

□ Conducted user training and created documentation to support the use of Power BI dashboards by non-technical users.

## Accenture (March 2021 – March 2022)

Process Associate

### Responsibility

□ To verify the creditworthiness of the borrower.