

Samar Mohanty

AI & ML engineer

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PROFILE SUMMARY

- Machine Learning Engineer with 3 years of experience in **machine learning**, NLP, deep learning, and **generative AI**.
- Proficient in end-to-end ML development, including data collection, model building, deployment, and monitoring.
- Skilled in Python and essential data science libraries (Pandas, NumPy, **OpenCV**, Matplotlib, **Scikit-Learn**, spaCy).
- Hands-on expertise in computer vision for tasks like traffic counting, vehicle classification, and ANPR (Automatic Number Plate Recognition).
- Proficient in database management (MySQL, MongoDB) and collaborative development using Git.
- Strong problem-solving skills, with experience in delivering AI-powered solutions across various industry like **agentic ai** and **gen ai**

TECHNICAL PROFICIENCY

Languages

Python , HTML , CSS , SQL

AI / ML

Machine Learning , Deep Learning , NLP , GenAI, Hugging face, Agnetic AI, Langchain

Libraries

Pandas, Numpy , Scikit-Learn , NLTK , PyTorch, Keras, Computer vision

Databases

MySQL, MongoDB

Web Framework

Django , Flask

PROFESSIONAL EXPERIENCE

AI & ML engineer

limasoft india 📍

01/2025 – present
hydrabad, India

Description:

Building drag-and-drop based ML pipelines within a no-code/low-code data science product. Special focus on end-to-end pipeline planning, method implementation, and integration.

Roles & Responsibilities:

- Collaborate with senior data scientists and engineers to plan end-to -end ML pipelines as part of a larger AI/ML platform product.
- Research, implement, and test a wide range of preprocessing and modeling methods including: encoding , imputation, outlier detection, scaling, feature engineering, and supervised ML algorithms.
- Design reusable and configurable pipeline components, enabling drag-and-drop workflows for users across diverse data sources (local CSVs, 10+ database integrations).
- Generate metadata for each method and collaborate with UI teams to ensure smooth integration and usability across the platform.
- Perform functional testing and validation of each pipeline component to ensure correctness and robustness.
- Contribute to the scalability and modularity of the ML pipeline framework to support real-world use cases and model evaluation workflows.

Machine Learning engineer

Kotai Electronics Pvt. Ltd

11/2021 – 12/2023

Kolkata, India

Automatic Traffic Counter and Classifier(Product)

Description:

Automatic Traffic Counter and Classifier(ATCC) is a device used for traffic volume counting surveys and classifying vehicles into different Vehicle categories and generating reports in an Excel sheet.

Roles &Responsibilities:

- Collected and curated a dataset of over 10,000 + custom traffic images for model training.
- Annotated and validated the dataset to ensure accurate labeling, using tools like LabelImg and data validation scripts.
- Developed and fine-tuned a deep learning model for vehicle classification using Python, Computer Vision ,PyTorch
- Implemented data augmentation techniques to improve model generalization.
- Evaluated model performance with metrics like accuracy, precision, recall, and F1 score using **scikit-learn** .
- Deployed the trained model using Flask for real-time vehicle counting and classification.
- Collaborated with cross-functional teams, including hardware engineers and software developers, to integrate ATCC at various locations.

QA Engineer

Kotai Electronics Pvt. Ltd

08/2020 – 10/2021

Kolkata, India

As a Quality Assurance (QA) Tester, I am responsible for ensuring the quality of software applications through various testing methodologies. With my expertise in identifying defects and bugs, I work closely with development teams to ensure that products are delivered to the market with high quality.

- Writing and Executing Test Cases and Scenarios: Proficient in creating and executing thorough test cases and scenarios for software applications
- SDLC (Software Development Life Cycle): Experienced in working through the entire software development life cycle,
- Agile Testing: Skilled in Agile testing methodologies, actively participating in sprint planning, conducting continuous testing,

EDUCATION

Master of Computer Application

krupajal engineering college

Earned a master's degree in Computer Science with a CGPA of **8.2**

08/2023 – 05/2025

Bhubaneswar, India

Bachelor of Computer Applications

Trident Academy of technology

Earned a bachelor's degree in Computer Science with a CGPA of **7.6**

08/2017 – 01/2021

Bhubaneswar, India

12 th Standard

BJP Collage of science & education

07/2015 – 08/2017

Bhubaneswar, India

CERTIFICATES

Machine learning Bootcamp

(Ineuron)

Python for Data Science and

Machine Learning

(By Udemy)

Data analysis

(by Udemy)

ML Ops

by Microsoft

LANGUAGES

• English

• Hindi

• Odia