Satam S

AI ML Developer, 1+ years experience
Mumbai, India
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Data Science enthusiast with hands-on experience in data analysis, machine learning, and data visualization. Equipped with a solid educational foundation and practical experience from internships, including developing AI models and conducting extensive data cleaning and analysis. Adept at utilizing tools like Python, SQL, and Power BI to extract actionable insights from complex datasets. Committed to continuous learning and eager to contribute to innovative data-driven projects within a collaborative team environment.

INDUSTRIES: Pharmaceutical Manufacturing, Environmental Science and Sustainability

TECHNICAL SKILLS

• Python	1 years & 5 months
• HTML & CSS	1 years
• PowerBI	1 years & 9 months
• Deep Learning	1 years & 9 months
• Data Visualization	1 years & 9 months
• Data Analysis	1 years & 9 months
• Github	1 years & 9 months
• Git	1 years & 4 months
• R	1 years & 4 months
• SQL Server	1 years & 3 months
• Machine Learning	1 years & 6 months
• Artificial Intelligence	1 years & 6 months
• C#.NET	1 years & 8 months

SOFT SKILLS

Time management, Strong Communication, Debugging, Teamwork, Critical thinking, Adaptability

PROJECT DETAILS

• AI-based Defect Detection April-2025 - June-2025

Project Description: The project focuses on developing an AI-driven defect detection system designed to enhance quality control in pharmaceutical packaging processes. Using the YOLOv8 deep learning model, the system identifies defects such as tears, dents, seal damage, or misprints on medicine packages in real time. A synthetic dataset was generated to replicate real-world packaging variations and defects, enabling effective model training and testing.

Responsibilities: - Conducted research and developed an AI-based system for inspecting defects in medicine packaging at large-scale manufacturing sites. - Utilized the YOLOv8 model for real-time detection of damaged packaging, leveraging a synthetic dataset. - Conducted Performance evaluation to ensure high accuracy and reliability in defect detection.

Technologies: Machine Learning, Deep Learning, Python, YOLOv8

Industry: Pharmaceutical Manufacturing

• Microplastic Detection Analysis July-2025 - August-2025

Project Description: The project focuses on the detection and analysis of microplastics in environmental samples using deep learning and predictive modeling. Developed a hybrid model combining YOLOv8 for object detection and ResNet-RS for image classification to identify microplastics with high precision. Employed transfer learning techniques to enhance model performance using limited labeled environmental data. Implemented time series forecasting methods to predict microplastic concentration trends and assess pollution progression over time. Aimed to provide a scalable AI-based framework for supporting environmental monitoring and pollution management initiatives.

Responsibilities: - Developed a deep learning model using YOLOv8 and ResNet-RS for accurate microplastic detection. - Applied transfer learning and time series forecasting to predict microplastic trends and support environmental monitoring.

Technologies: Python, Deep Learning, Time Series Forecasting, YOLOv8, RES-NET

Industry: Environmental Science and Sustainability

EMPLOYMENT HISTORY

• AI ML Developer

Description: Worked on project to apply machine learning techniques in solving practical problems. Conducted exploratory data analysis and visualized data insights.

• Artificial Intelligence Intern December-2023 - May-2024

Acmegrade

Description: Worked on project to apply machine learning techniques in solving practical problems. ● Conducted exploratory data analysis and visualized data insights.

• Software Associate July-2022 - November-2022

Capgemini

Description: Collaborated with a team to develop and implement a comprehensive Hotel Management System using C#, .NET Core, and SQL Server, designed to streamline hotel operations and enhance guest experience. ● Designed and developed key features for room booking, guest management, and billing. ● Managed SQL Server databases for efficient data handling and optimization.

CERTIFICATION

• Accenture North America Data Analytics and Visualization Job Simulation by Forage 2024

• Oracle Database Design and Database Programming with SQL Certification. by Oracle 2023

• IBMCEP - Python for Web Development. by ITVedant 2022

• Web Designing by ITVedant 2022

EDUCATION

• Masters degree in Data Science from Vellore Institute Of Technology, Chennai 2023 - 2025

• Bachelors degree in Computer Science from Kirti M Doongursee 2019 - 2022

LANGUAGES

• English - advanced

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