

Muskan Sonkar

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PROFESSIONAL EXPERIENCE

Software Developer at Constems-AI

07/2024 – 06/2025

- Developed a custom LRU cache from scratch, optimizing database query performance on AWS and improving execution speed by over 50%.
- Reduced quality assurance time through dynamic gap threshold analysis for SKU alignment.
- Implemented an automated SKU detection algorithm to verify whether products are placed on the shelf or on top of the shelf, enhancing inventory accuracy by 80%.
- Enhanced product layout accuracy by 85% by implementing SKU alignment validation using bounding box coordinates.

Associate Software Developer at Constems-AI

11/2022 – 10/2023

- Debugged and maintained codebases, ensuring smooth functionality and system reliability.
- Worked on code maintenance and optimization, improving performance and scalability.
- Collaborated with cross-functional teams to develop and deliver scalable solutions for clients in the retail sector.

Data Science and Machine Learning Teaching Assistant at Coding Ninjas

09/2022 – 01/2023

- Conducted interactive doubt sessions, assisting students in understanding core ML and Data Science concepts.
- Debugged and optimized student codes, ensuring efficient implementation of machine learning algorithms.
- Provided guidance on assignments and projects, helping students complete multiple hands-on projects and improve their practical skills.

PROJECTS

YelpCamp

- A full-stack web application for exploring, adding, and reviewing campgrounds, featuring secure user management, image hosting, and dynamic content updates using **Express.js**, **HTML**, **CSS**, **JavaScript**, **Bootstrap**, and **MongoDB**.
- Implemented **secure user authentication and authorization** with session handling.
- Integrated **Cloudinary** for seamless image uploading and retrieval.
- Developed **CRUD operations** for managing campgrounds and user reviews.

Automated Accounting Software for Invoice Processing

- Developed a Python-based accounting tool to automate invoice-to-ledger workflows, streamlining financial operations for finance companies. Reduced manual bookkeeping efforts by up to 80%, significantly lowering accounting expenses.
- Engineered robust algorithms for extracting and converting data from PDFs to Excel using RAG (Llama Index), automating journal entry generation across multiple categories (sales, expenses, credits).
- Eliminated human errors and reduced processing time by 70% through automated journal entry generation.
- Consolidated financial reports (balance sheets, P&L statements) into unified Excel outputs, improving financial analysis turnaround time by 60%.

E-commerce Website

- Developed a full-featured e-commerce platform using Django, integrating product listings, shopping cart functionality, and secure user authentication.
- Implemented an intuitive admin panel for seamless management of products, orders, and user accounts.
- Ensured a responsive and user-friendly interface, optimizing the shopping experience across different devices.

EDUCATION

B.Tech, Sr Institute of Management and Technology

2019 – 2023

Intermediate and High School, Crosthwait Girls Inter College

2016 – 2018

SKILLS

Programming Languages — Python, JavaScript, HTML, CSS, SQL

Frameworks & Libraries — Django, MERN, TensorFlow, LangChain, Scikit-Learn, Bootstrap, ReactJS, Pandas, NumPy, OpenCV, Selenium, BeautifulSoup, Matplotlib

Tools & Technologies — Machine Learning, Deep Learning, Git, Docker, Jupyter Notebook, PyCharm, VS Code

CERTIFICATES

• Data Science and Machine Learning Excellence Certificate

• Data Structures and Algorithm in Python Excellence Certificate