

# Vaishnavi Deshmukh

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## EXPERIENCE

- Ai Adventures** Pune, India  
*Machine Learning Intern (Full-time)* 11/2024 - 03/2025
  - Developed a sales forecasting and inventory management system using Python and AI (Prophet) to optimize stock levels and improve efficiency in the grocery retail sector.
  - Processed and cleaned datasets, ensuring high accuracy and reliability for machine learning model training, which improved model precision by 15%
  - Evaluated model performance using metrics such as accuracy, precision, and recall, achieving a 95% accuracy rate in predictive tasks
- Asian Paints Pvt Ltd** Mumbai, India  
*Programmer Analyst* 03/2022 - 06/2024
  - Optimized forecasting workflows by analyzing large datasets, reducing processing time by 81% (from 8 hours to 1.5 hours).
  - Conducted predictive analytics to develop a data-driven system for 5-month procurement planning, enhancing forecast accuracy and reducing overstock/shortages.
  - Developed real-time dashboards using Python, Power BI, and SQL, enabling actionable insights and improved decision-making on inventory, procurement trends, and forecasts, resulting in a 25% improvement in forecast accuracy.
  - Leveraged predictive analytics to enhance procurement and distribution planning, achieving a 15% reduction in supply chain costs.
- Skilledge Edu Tech** Pune, India  
*IT Developer and Analyst Intern* 07/2021 - 10/2021
  - Gained hands-on experience across the entire software development lifecycle, including design, implementation, and maintenance, delivering high-quality solutions.
  - Contributed to the development of a modern, scalable platform by leveraging cutting-edge technologies and industry best practices, enhancing system scalability by 25%.
  - Collaborated with cross-functional teams to troubleshoot and optimize system performance, achieving a 20% improvement in operational efficiency and ensuring a seamless user experience.

## PROJECTS

- PAN Card Details Extraction Automation** : Developed an automated PAN card data extraction system using U-Net (TensorFlow/Keras) for precise text region isolation, integrating OpenCV for preprocessing and Tesseract OCR for extracting the PAN number and cardholder name, significantly improving OCR accuracy. **Impact**: *Boosted text recognition accuracy and reduced manual entry efforts in document processing workflows.* **Tech**: *Python, TensorFlow/Keras (U-Net), OpenCV, Tesseract OCR, Tkinter.*
- Neural Style Transfer project**: Implemented a PyTorch-based neural style transfer pipeline, leveraging CNN feature extraction and custom loss functions for artistic image transformations, while integrating optimization techniques and data visualization for enhanced processing. **Impact** : *Improved image processing efficiency and quality, enabling high-performance artistic transformations.* **Tech**: *Python, PyTorch, NumPy, OpenCV, pandas, matplotlib, seaborn, tqdm*
- Fashion Generative Adversarial Network**: Developed a Fashion GAN using TensorFlow/Keras to generate synthetic clothing images, integrating OpenCV for resizing and Matplotlib for custom visualizations, while saving models in .h5 format for future applications in automated fashion design, virtual try-ons, and data augmentation. **Impact** : *Streamlined synthetic data generation for fashion, enabling virtual try-ons, data augmentation, and automated catalog creation.* **Tech** : *Python, TensorFlow/Keras (GANs), OpenCV, Matplotlib, Fashion MNIST Dataset*

## EDUCATION

- Mes Institute of management and career courses** Pune, India  
*Master of Computer Applications* 06/2022
- Bharati Vidyapeeth University** Pune, India  
*Bachelor's of Computer Science* 06/2019

## SKILLS SUMMARY

- Languages**: Python, C++, Java
- Frameworks**: TensorFlow, Keras, PyTorch, Scikit-learn, XGBoost, LightGBM
- Tools**: Pandas, NumPy, Matplotlib, Seaborn
- Databases**: SQL

## CERTIFICATES

- Deep Learning Professional**: Tech: Python, Data Science, SQL, Machine Learning, and Deep Learning.(06/2024 - 10/2024)