

# Shantanu Yadav

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## Technical Skills

- **Programming Languages:** Python, Java, JavaScript
- **Data Science:** Pandas, NumPy, Matplotlib, Seaborn
- **Web Development:** MERN Stack (MongoDB, Express.js, React.js, Node.js), Django, RESTful APIs
- **Databases:** MySQL, MongoDB
- **Cloud Platforms:** AWS (EC2, RDS, S3, SageMaker), Google Cloud Platform
- **Frontend:** HTML, CSS, Tailwind CSS
- **Tools & DevOps:** Git, GitHub, Docker, Postman, Jupyter, CI/CD
- **AI & ML:** Scikit-learn, TensorFlow, PyTorch, Keras, NLP, Computer Vision

## Projects

### RetailEdge – Self-Checkout Retail System

Nov 2024 – Apr 2025

retailedge.vercel.app

- Engineered a Spring Boot backend and deployed cloud-native APIs for a smart cart-based supermarket checkout system.
- Integrated RFID + weight sensors on IoT carts to detect theft and generate real-time bills; deployed using AWS EC2.
- Led DevOps setup with CI/CD pipeline; improved checkout efficiency by **70%**, enabling secure self-service billing.

### Pejonx – Local Seller E-Commerce Platform

Jul 2022 – Aug 2023

- Founded and scaled a hybrid E-Commerce and marketing startup connecting 10+ small vendors with digital buyers.
- Managed product listings on my own E-Commerce platform and Amazon Seller Central, implemented delivery pipeline, and optimized ads via Google Ads.

## Education

**MCA**, KIET Group of Institutions

Aug 2024 – Present

**BCA**, Bundelkhand University

2024

**XII**, L.A. Singhanian Educational Academy

2021

**X**, Woods Heritage School

2017

## Certifications

- AWS Academy Graduate – Cloud Foundations
- Python Essentials – Cisco NetAcad
- Blockchain and Cryptocurrency – Birdliffy
- Intro to Artificial Intelligence – LinkedIn Learning

## Achievements

- **Winner – HACK-A-THON 25, IMS Ghaziabad:** Built an IoT-enabled smart cart with theft detection.
- **Winner – Innovate 2025, MANIT Bhopal:** Developed a scalable smart-city solution using cloud and IoT.

## Core Competencies

- **Technical Leadership:** Capable of managing agile teams and end-to-end project execution.
- **Cloud Architecture:** Skilled in deploying and scaling services using AWS (S3, EC2, RDS).
- **System Design:** Strong understanding of microservices, API security, and modular design.
- **Creative Problem Solving:** Known for converting challenges into high-impact solutions.

## Patent

- **Indian Patent Application No. 202511074908 – Published (2025):** Developed an IoT-enabled smart cart system with RFID, weight sensors, and cloud integration for secure and automated supermarket checkout. View on Indian Patent Search