

Nitesh Shinde

✉ shindenitesh829@gmail.com

📍 Jalgaon, Maharashtra

🌐 <https://www.linkedin.com/in/nitesh-shinde-04ba482b4/e-04ba482b4>

☎ +91 9322664312

🔗 <https://github.com/Niteshshinde999>

📁 Portfolio: <https://nitesh.xcentinnovations.com/>

PROFILE

- I'm a Computer Science (AIML) student passionate about data engineering, backend development, and building intelligent systems. I enjoy working with real-world datasets, creating scalable pipelines, and developing web applications that solve practical problems.
- I have hands-on experience with Python, Django, PySpark, Airflow, PostgreSQL, and Docker. During my 3-month internship at Xcent Innovations OPC Pvt. Ltd., I worked on a transport management system where I focused on fleet data tracking, load management, and data analysis to support prediction and cost optimization tasks.

SKILLS

Technical Skills

- **Programming Languages:** Python, C++, Java, SQL, SQLAlchemy
- **Big Data & Cloud:** PySpark, Airflow, AWS, Databricks
- **Databases:** PostgreSQL, MySQL, MongoDB (NoSQL)
- **Backend & DevOps:** Django, FastAPI, Docker
- **Version Control:** Git, GitHub

CERTIFICATES

- **Oracle Data Platform 2025 Certified Foundations Associate** 📄
- **HackerRank: SQL (Intermediate)** 📄
- **Academy Accreditation - Databricks Fundamentals** 📄
- **TestDome: Python** 📄

EDUCATION

2022 – 2026	B.Tech in Computer Science (AIML) <i>GH Raisoni College Engineering and Management, jalgaon</i>	Jalgaon, Maharashtra, India, India
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PROJECTS

1. Child Safety Desktop Application: Adult & Harmful Content Detection 📄

This desktop application is designed to protect children from exposure to harmful content by detecting both adult/NSFW images and harmful or inappropriate text in real time. Built with PySide6, it provides an intuitive and interactive desktop interface that allows users—parents, educators, or administrators—to monitor, flag, and manage unsafe content effectively.

Tools & Technologies

- Programming Language: Python 3.11
- GUI Framework: PySide6 (Qt for Python)
- Deep Learning / Image Detection: NudeNet, ONNX Runtime, OpenCV, Pillow, NumPy
- Database: MySQL / SQLAlchemy (ORM for database interaction)
- File Handling / Image Capture: mss (screen capture), pytesseract (OCR)
- Environment / Packaging: python-dotenv (configuration), PyInstaller (for building desktop executable)

2. YouTube Data Pipeline with Recommendation System | PySpark, Airflow, PostgreSQL, Django, Docker 📄

This project is built to help students with self-study. It allows users to create their own courses by adding study videos and playlists from YouTube. While watching a video, the platform provides practice questions to test their knowledge.

The project includes a recommendation model that suggests videos based on the user's interests.

- Developed a Django-based web application that recommends YouTube videos and practice questions using the gemini API.
- Implemented a real-time recommendation engine using PySpark ALS and PostgreSQL.
- Integrated PostgreSQL for efficient data storage and retrieval of generated questions.
- Deployed the application on AWS and containerized services using Docker.

3. Mock Test Platform | Django, Docker, gemini API 📄

- Built a **Django-based web application** that generates **exam-style practice questions and short answers** for AWS DEA-C01 aspirants.
- Provided a **Dockerized setup (Dockerfile + docker-compose.yml)** for easy deployment and portability.
- Enabled learners to run the app in a **mock test environment** without dependency issues.

PROFESSIONAL EXPERIENCE

Internship Experience

Intern – Data Management & Analysis Xcent Innovations OPC Pvt. Ltd. | Dec 2024 – Feb 2025

Worked on **Data Management and Analysis** for a **Transport Management Application**, optimizing fleet operations through data-driven insights.

- Tracked and analyzed **fleet data** to improve operational efficiency.
- Managed **load distribution** and conducted **cost management analysis** to optimize resource utilization.
- Collected, processed, and mined data to generate **actionable insights** for business decisions.
- Developed **predictive reports** for fleet requirement forecasting and **cost optimization**.

Key Skills: Data Analysis, Fleet Management, Cost Optimization, SQL, Python, Data Visualization.