

ASHUTOSH KHILAR

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🌐 [Portfolio](#) | 🔗 [LinkedIn](#) | 💻 [GitHub](#)

PROFESSIONAL SUMMARY

Python & Web Developer skilled in building scalable full-stack applications with React.js, Python, REST API, and SQL. Experienced in integrating machine learning models into web apps to deliver data-driven solutions. Strong focus on performance optimization, responsive UI design, and API development.

TECHNICAL SKILLS

- **Languages:** Python (OOP, File Handling), JavaScript (ES6+, DOM, JSON, AJAX), SQL, HTML5, CSS3 (Flexbox, Grid, Media Queries, Bootstrap, Responsive Web Design)
- **Frameworks/Libraries:** FastAPI, REST API Development, Django, React.js (Hooks, Router, State Management, Performance Optimization), Pandas, NumPy, Scikit-Learn, Matplotlib
- **Databases:** MySQL, Oracle SQL Plus (CRUD, Joins, Subqueries, Normalization, Grouping)
- **Tools/Environments:** VS Code, Jupyter Notebook, Anaconda, IDLE, Git/GitHub, Excel, PowerPoint
- **Soft Skills:** Problem-Solving, Team Collaboration, Adaptability, Time Management, Critical Thinking

PROJECTS

1. Credit Card Fraud Detection (Machine Learning | Python)

- Built a real-time fraud detection system using ensemble methods on imbalanced datasets.
- Implemented **SMOTE oversampling** to improve recall by 35%.
- Deployed as a **Flask API** with 200ms response time for transaction validation.
- **Result:** Reduced false negatives by 40% compared to traditional logistic regression. 📄 [GitHub](#)

2. Movie Recommendation System (Web Integration | Python + JavaScript)

- Developed hybrid recommender (Content-based + Collaborative filtering).
- Designed a **React.js frontend** with personalized UI and rating system.
- Optimized cold-start problem using **demographic filtering** for new users.
- **Result:** Achieved 85% user satisfaction in A/B testing. 📄 [GitHub](#)

3. GANs for Image Generation (Deep Learning | Python)

- Trained a **Deep Convolutional GAN (DCGAN)** on CIFAR-10 to generate 32x32 synthetic images.
- Addressed mode collapse using **Wasserstein Loss** and **Gradient Penalty**.
- Visualized training stability via **TensorBoard** (discriminator/generator loss curves).
- **Result:** Generated images with **FID score < 50**, comparable to baseline papers. 📄 [GitHub](#)

EDUCATION

Master in Computer Application (CGPA: 8.90)

Biju Patnaik University of Technology, Odisha | 2023-2025

Bachelor of Science (CGPA: 8.57)

Fakir Mohan University, Odisha | 2020-2023

CERTIFICATIONS

- **Management Information System** – NPTEL, IIT Kharagpur (2024)
- **Cloud Computing** – NPTEL, IIT Kharagpur (2024)
- **Introduction to IoT** – NPTEL, IIT Kharagpur (2024)

KEY ACHIEVEMENTS

- Ranked in top 10% academically in MCA program (CGPA: 8.90).
- Open-source contributor:
 - [GAN Model](#) | [House Price Prediction](#) | [Credit Card Fraud Detection](#) | [Movie Recommender](#)