ASHUTOSH KHILAR

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Portfolio | LinkedIn | GitHub

PROFESSIONAL SUMMARY

Highly motivated Full Stack Python Developer with a Master's degree in Computer Applications (8.75 CGPA) and expertise in building scalable back-end and full-stack solutions using Python (Django, Flask), RESTful APIs, and SQL. Proven ability to integrate Machine Learning models to deliver data-driven results, as evidenced by a 40% reduction in false negatives in a fraud detection system. Seeking to leverage strong OOP, Data Structures & Algorithms, and Git skills in a dynamic, high-growth development role.

TECHNICAL SKILLS

- **Languages: Python 3** (OOP, Multithreading, Async), **SQL**, JavaScript (ES6+), HTML5, CSS3
- **Frameworks/Libraries: Django, Flask, REST API Development** (Designing & Consuming), React.js, Bootstrap
- **Data & ML: Pandas, NumPy, Matplotlib,** Scikit-learn, Deep Learning (GANs)
- **Databases: MySQL, Oracle SQL Plus** (CRUD, Joins, Subqueries, Normalization)
- **Core CS & Tools: Data Structures & Algorithms (DSA),** Object-Oriented Programming **(OOP), Git/GitHub,** VS Code, Anaconda, IDLE, Excel, PowerPoint
- **Soft Skills:** Problem-Solving, Team Collaboration, Adaptability, Time Management, Critical Thinking

PROJECTS

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

- **Developed** a real-time fraud detection system using advanced Python libraries and ensemble Machine Learning techniques on highly imbalanced financial datasets.
- With the rise of online **transactions**, the need for **robust**, accurate, and real-time fraud detection systems has become more critical than ever.
- **Result: Reduced false negatives by 40% compared to traditional logistic regression.** GitHub

2. Movie Recommendation System (Python + JavaScript + Flask)

- **Engineered** a server-side back-end using **Python Flask** to handle data processing and recommendation logic, integrating with a front-end interface built with **JavaScript/HTML/CSS**.
- **Designed and implemented** a **RESTful API** endpoint to serve personalized movie suggestions based on collaborative filtering algorithms.
- **Result:** Achieved 85% user satisfaction in A/B testing. GitHub

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

- **Implemented** and **trained** a Generative Adversarial Network (**GAN**) model capable of generating high-quality, realistic images from scratch.
- **Utilized** Python and specialized Deep Learning frameworks to manage and process large image datasets and visualized stability via Tensor Board.
- **Result: Evaluated** performance using industry-standard benchmarks, **achieving a FID score < 50**, which is comparable to published baseline papers. GitHub

EDUCATION

Master in Computer Application (MCA)

- Biju Patnaik University of Technology, Odisha | **CGPA: 8.75** (2023 – 2025)

Bachelor of Science

- Fakir Mohan University, Odisha | **CGPA: 8.57** (2020 – 2023)

CERTIFICATIONS

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