GAURI MANISH DEOGHARE

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https://github.com/GauriDeoghare434

https://www.linkedin.com/in/gauri-deoghare-7a751924b/ | Gauri Deoghare Portfolio

ABOUT ME

Energetic and enthusiastic Computer Science Engineering student with strong foundations in AI/ML, GenAI and deep passion for turning data into actionable insights using Machine Learning and Deep Learning. I enjoy breaking down complex challenges into structured, explainable solutions. I'm constantly exploring new technologies and staying updated with the latest research, Driven, adaptable, and curious—I'm eager to contribute by building intelligent, AI-powered solutions that scale. Outstanding leadership and communication abilities combined with a "will-do" mentality to complete projects on time and keep up of emerging computer trends and technology.

SKILLS

- **Coding Languages:** C/C++, Python, SQL
- **Technical:** HTML, CSS, MySQL, AI/ML, Deep Learning, Databricks, Power BI, Tableau, DBMS, OS, Computer Networks, PowerShell, Shell Scripting, Git/GitHub, Data Structures and Algorithms, Data Science, Software tools for CS, Agile, Linux(Basics), Docker(Learning)
- **AI/ML & Tools:** Scikit-learn, TensorFlow, Keras,
- **Soft Skills:** Communication, Leadership, Team Management, Leadership, Consistence,
- **Spoken Languages:** English, Hindi, Marathi, Gujarati

EXPERIENCE

AKSHAAR PAUL FOUNDATION 07/2024–10/2024

Technical Support Intern

- Developed Python-based biometric attendance management systems and built interactive Power BI dashboards.
- Provided technical troubleshooting support and maintained system logs and records.

HYBRID DEEP LEARNING AND GRADIENT BOOSTING MODELS FOR LANDSLIDE SEGMENTATION 02/2025–Present

Research Internship Work under COEP Technological University Pune (Mentor: Dr. Suraj Sawant)

- Hands-on experience in deep learning-based semantic segmentation using U-Net and hybrid encoder architectures on real-world remote sensing datasets.
- Developed and evaluated multiple hybrid models to improve landslide detection accuracy, achieving robust results with ROC-AUC up to 0.980.
- **Keywords:** semantic segmentation, computer vision, U-Net, remote sensing, geospatial AI

EDUCATION

Symbiosis Institute of Technology, Pune 08/2022 – 05/2026

B.Tech in Computer Science and Engineering ***CGPA:7.8/10***

PROJECTS

Access- Shield: AI Powered BAC detection and mitigation 02/2025 - Present

- Designed a custom Python-generated dataset to train machine learning models for detecting Broken Access Control (BAC) vulnerabilities in real time and published it on Mendeley. Data (Dataset Link)
- Evaluated traditional and advanced ML models (XGBoost, LightGBM, MLP, etc.) to build a reliable and secure BAC detection framework with over 94% ROC-AUC.
- Research paper accepted at *Taylor and Francis Journal* for publication.
- **Keywords:** cybersecurity, model evaluation, supervised learning, threat detection

Impact of Data Breaches on Business (Power BI & ML-based Analytics) 01/2025 – 04/2025

- Designed an interactive Power BI dashboard using 4,000+ web-scraped breach records to visualize financial loss, lawsuits, GDPR fines, and industry-wise impact.
- Enabled data-driven insights into breach trends and organizational vulnerabilities through dynamic visual storytelling and comparative country-wise analytics.
- **Keywords:** data visualization, business intelligence, analytics, web scraping

Password Security Prediction Using Advanced Deep Learning Architectures 02/2025- 04/2025

- Developed and evaluated deep learning models (EfficientNetB2, ResNet152V2, ConvNeXtBase, etc.) for image classification, achieving up to 99.25% accuracy with CNN-based architectures.
- Analyzed the performance trade-offs of hybrid models combining CNN feature extractors with boosting algorithms (CatBoost, LightGBM, XGBoost), identifying a 21.60% efficiency drop due to loss of spatial information.
- Research paper accepted and presented at the *SCI-2025 International Conference*; will be available in the *Springer Digital Library*.
- **Keywords:** feature extraction, CNN, model interpretability, security analytics

Integrative Malware Detection using Ensemble Learning 02/2024 - 05/2024

- Employed artificial intelligence techniques, such as GBM, XGBoost, CatBoost, and LightGbm ensemble learning models, to identify malware families.
- Used the dataset from “Microsoft Malware Classification Challenge2015”.
- Examined and assessed the effectiveness of many ensemble learning models for the identification and categorisation of malware
- Research paper accepted at the FICTA-*2025 International Conference*; to be published in the *Springer Digital Library*.
- **Keywords:** ensemble learning, cybersecurity, malware classification, imbalanced data

ACHIEVEMENTS

BEST PAPER TITLE: 7th International Conference on Smart Computing and Informatics (SCI-2025)

- Oral Presentation for Hybrid Deep Learning Models for Enhanced Password Security Assessment Kuala Lumpur, Malaysia – Oral Presentation (07/2025)

Presented Research Paper: 13th International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA-2025)

- Delivered a **Virtual presentation** on hybrid deep learning approaches for improving password strength evaluation and focused on enhancing malware detection systems using transfer learning and ensemble techniques.

CERTIFICATIONS

- Python for AI, Data Science and Development-IBM 08/2024 – Present
- Prompt Design in Vertex AI Skill Badge 09/2024 - Present
- GenAi for everyone- DeepLearningAi 09/2024 - Present
- Excel Essentials for Data analytics-IBM 07/2024 - Present
- Data Analytics essentials-IBM 06/2024 - Present