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GitHub: github.com/Amulya-Raghunath

Portfolio: amulya-raghunath.github.io/portfolio

SUMMARY

Machine Learning Engineer with experience building ML models, computer vision pipelines, and automation systems using Python. Skilled in data preprocessing, model training, evaluation, and deployment-ready workflows. Strong foundation in algorithmic problem-solving, deep learning fundamentals, and ML research with **2 published ML papers**. Passionate about scalable ML systems, inference optimization, and productionizing data workflows.

CORE SKILLS

ML & AI: Supervised Learning, Model Evaluation, Cross-Validation, Feature Engineering, CNN basics

Deep Learning: PyTorch/TensorFlow basics, OpenCV, LBPH, Data Augmentation

ML Stack: Python, Scikit-learn, NumPy, Pandas, Matplotlib, Seaborn

MLOps: Git, CI/CD basics, FastAPI basics, MLflow (tracking intro), Model Packaging Concepts

Cloud & Systems: AWS fundamentals (S3, EC2 basics), Linux, Shell scripting basics

Data: ETL, Data Preprocessing, Data Validation, SQL

EXPERIENCE

ML Intern — Goodix Technology India Pvt Ltd (*Dec 2022 – Sep 2023*)

- Engineered Python-based automation scripts to streamline system performance validation workflows, reducing manual checks and improving turnaround time
- Analyzed memory and performance datasets to generate insights supporting engineering decisions, improving test reporting consistency
- Implemented structured data validation checks to improve reporting consistency and reduce review cycles

Data Science Intern — IC Solutions (*Mar 2021 – Apr 2021*)

- Built and evaluated ML models on structured datasets using Python and scikit-learn, achieving strong accuracy metrics (consistently >90%)
- Applied feature engineering and cross-validation to identify optimal model configurations, improving model stability and performance
- Automated model training and evaluation workflows to accelerate experimentation cycles and improve reproducibility

****Computer Vision Intern — AVM Labs (*Jun 2020 – Jul 2020*)**

- Developed image processing utilities in Python & OpenCV for format conversion and enhancement, improving clarity and usability of processed outputs
- Automated repetitive visual processing tasks to streamline imaging workflows
- Optimized transformation pipeline to improve clarity and processing efficiency, achieving noticeable speed gains in processing

PROJECTS

Malware Detection ML System — Python, Sklearn, Pipeline Design

- Evaluated **7 ML/DL models** for malware classification and automated scoring pipeline
- Processed and analyzed a dataset of **1,000,000+ records** for training and validation
- Built feature engineering and model comparison workflow improving model robustness and inference reliability

Face-Recognition Attendance System — Python, OpenCV, LBPH

- Implemented live face-detection & recognition pipeline with real-time inference
- Designed automated logging system for attendance tracking with consistent recognition performance across multiple test users

ML Model Evaluation Toolkit (Academic) — Python

- Engineered reusable evaluation scripts improving experiment repeatability
- Performed metric computation (Precision, Recall, F1-Score, Confusion Matrix) and visualization for benchmarking

EDUCATION

M.Tech — Computer Network & Engineering (BMSCE) | CGPA: 9.7/10

B.E — Information Science & Engineering (JIT) | GPA: 8.89/10

PUBLICATIONS

2 peer-reviewed ML papers (malware detection & face-recognition systems)