AMULYA R

Chikkalasandra, Bangalore | +91-9113227127 | amulyajamadagni@gmail.com
LinkedIn: http://www.linkedin.com/in/amulya-r-4612931b9 |
GitHub: github.com/Amulya-Raghunath | Portfolio: amulya-raghunath.github.io/portfolio/

SUMMARY

Machine Learning & Backend Engineer skilled in Python, ML model development, Power BI dashboards, and Spring Boot microservices. Experienced in building end-to-end systems—from data preprocessing and model training to deployment using FastAPI, MLflow, Docker, and AWS. Strong ability to translate business problems into ML-driven automation solutions. Actively building solutions across ML, backend APIs, and analytics, with a focus on deploying real-world automation systems.

SKILLS

Python, Machine Learning, Deep Learning (CNN, OpenCV, LBPH), Scikit-learn, TensorFlow/PyTorch basics, NumPy, Pandas, Matplotlib, Seaborn, Power BI, SQL, ETL, Data Preprocessing, Model Evaluation, Feature Engineering, FastAPI, Spring Boot, REST APIs, Git, Docker, MLflow, AWS (EC2, S3), Linux, Shell Scripting, Data Validation

WORK EXPERIENCE

Independent Researcher & Project Developer — Machine Learning | Power BI | Spring Boot

October 2023-Present

- Designed and deployed end-to-end ML models and automation pipelines using Python, Scikit-learn, and FastAPI for real-world datasets.
- Built Power BI dashboards to visualize performance metrics and KPIs, improving business insight generation.
- Developed Spring Boot REST APIs integrating trained ML models for automated analytics and real-time inference.
- Implemented MLOps tools (MLflow, Docker, AWS EC2) to enhance deployment reproducibility and scalability.
- Expanded a diverse project portfolio spanning Machine Learning, Data Visualization, and Backend Engineering domains.

Student Intern — Goodix Technology India Pvt Ltd

December 2022 – September 2023

- Improved memory-processing efficiency across multiple platforms, leading to 35% faster execution in reporting tasks
- Created a Python-Pandas-Excel pipeline that cut manual data handling efforts by 60%
- Enhanced validation scripts to increase data accuracy
- Conducted performance tuning & log analysis to enhance system reliability
- Coordinated with cross-functional teams to streamline reporting workflows

Data Science Intern — IC Solutions

March 2021 – April 2021

- Cleaned and processed 20,000+ records for ML experimentation and analysis
- Optimized feature-engineering methods improving ML prediction accuracy by 25%
- Built dashboards and visual reports for model insights using Python
- Implemented evaluation scripts, reducing testing time by 40%

PROJECTS

Malware Detection ML System — Python, Sklearn

- Processed 1M+ samples and engineered 25+ features for training.
- Compared 7 ML models; best model achieved 96% accuracy.
- Built automated training pipeline reducing iteration time by 70%.

Face Recognition Attendance System — Python, OpenCV, LBPH

- Achieved 92–95% accuracy in varying lighting conditions.
- Automated attendance logging reducing manual work by 90%.
- Implemented real-time inference at >20 FPS using LBPH + OpenCV.

EDUCATION

M.Tech — BMS College of Engineering | CGPA: 9.7
B.E — Jyothy Institute of Technology | GPA: 8.89

CERTIFICATIONS

Power BI — Great Learning

ACHIEVEMENTS

Branch Topper — Information Science Engineering;
Published 2 ML research papers (IJSDR, IJERT)

PUBLICATIONS

- *Malware Detection using Machine Learning Algorithms* — IJSDR, 2023
- *Online Attendance System using ML Algorithms* — IJERT, 2021