

## **AMULYA R**

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## **SUMMARY**

Data Analyst skilled in Power BI, SQL, and Python with hands-on experience in ML pipelines and automation. Reduced manual effort by 60% and improved performance by 35%.

## **SKILLS**

Power BI, DAX, Power Query, SQL, Python, Pandas, NumPy, Excel, ETL, MySQL, PostgreSQL, MLflow, Docker, AWS, Git, Spring Boot

## **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**

#### **Fashion Retail BI Dashboard — Power BI**

- Analysed 120,000+ retail transactions across customer, product, and region dimensions
- Architected Star Schema & Power Query pipelines, improving refresh speed by 50%
- Executed 20+ DAX measures for KPIs like sales growth, retention, and profit margin.

**Malware Detection System (Python, ML):** Trained 7 ML models, built automated scoring pipeline, boosting robustness and inference reliability.

**Library Management System (Spring Boot + MySQL):** Designed CRUD APIs and schema improving query efficiency by 40%.

**Face Recognition Attendance (OpenCV):** Implemented live detection achieving 80% accuracy and automated attendance logging.

### **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