

# MOHAMMED AFNAN K A

Thrissur, Kerala, India, 680681

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## PROFESSIONAL SUMMARY

Computer Science graduate and Red Hat Certified System Administrator (RHCSA) with hands-on experience in Red Hat Enterprise Linux and a strong foundation in Linux system administration, networking, and server fundamentals. Proficient in Linux command-line administration, user and group management, file permissions, storage management, LVM, systemd, SSH, and network configuration. Strong troubleshooting and problem-solving abilities with a keen interest in enterprise infrastructure and system administration.

## EDUCATION

### Vidya Academy Of Science And Technology

*Bachelor of Technology (CSE) - CGPA: 7.34*

**2022 - 2026**

*Thrissur, Kerala*

### St Joseph HSS Mathilakam School

*Class XII - Kerala HSE Board - 91.2%*

**2020 - 2022**

*Mathilakam, Kerala*

### Albab Central School

*Class X - CBSE Board - 68.7%*

**2020**

*Kattoor, Kerala*

## TECHNICAL SKILLS

**Operating Systems:** Red Hat Enterprise Linux (RHEL), Linux

**System Administration:** Linux CLI, User & Group Management, File Permissions, Storage Management, File Systems (XFS, EXT4), LVM, Systemd, Process Management, Package Management, SSH, Sudo/Sudoers

**Networking:** TCP/IP, IPv4, DNS, DHCP, Network Configuration, Subnetting

**Server Administration:** NFS, AutoFS, Service Management, Remote Administration

**Programming:** Python, SQL, Java (Basics)

**Scripting:** Bash/Shell Scripting

**Tools:** Git, VS Code, PyCharm

**Core Concepts:** Operating Systems, Networking, DBMS

**Soft Skills:** Troubleshooting, Problem-solving, Teamwork, Adaptability

## PROJECT

### EyeQ: Full-Stack AI-Powered Eye Disease Detection System

- Developed a **full-stack AI-powered eye disease detection platform** with a Flutter-based mobile application for patients and a Python Django backend for authentication, appointment scheduling, diagnosis management, and medical record handling.
- Integrated a customized **EfficientNet-B3** deep learning model for dual-eye retinal image analysis, enabling automated multi-label disease detection through image preprocessing, feature fusion, and affected-eye identification.
- Technologies Used:** Python, Django, Flutter, Dart, PyTorch, EfficientNet-B3, OpenCV, MySQL, REST API

### HeartPredict AI: AI-Powered Heart Disease Prediction System

- Developed an **AI-powered web application** using **Python** and **Flask** for real-time heart disease prediction, enabling users to analyze clinical health parameters through an interactive web interface.
- Built and optimized a **Random Forest** machine learning model by implementing data preprocessing, feature scaling (**StandardScaler**), **SMOTE**-based class balancing, hyperparameter tuning using **GridSearchCV**, and cross-validation to improve prediction accuracy and reliability.
- Technologies Used:** Python, Flask, Scikit-learn, Pandas, NumPy, HTML, CSS, Bootstrap, JavaScript

## Linux System Monitoring and Automation using AWS EC2

- Developed a Bash script to monitor CPU and process activity, memory and swap usage, disk utilization, and running services on an Ubuntu Linux instance hosted on AWS EC2.
- Automated daily execution at midnight using a cron job configured with `0 0 * * *` and recorded monitoring output in a log file for troubleshooting.
- **Technologies Used:** AWS EC2, Ubuntu Linux, Bash, Cron, Git, GitHub, SSH

## INTERNSHIP

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### Artificial Intelligence and Machine Learning

*ICT Academy of Kerala*

- Gained hands-on experience in Python, data preprocessing, and implementing supervised and unsupervised ML algorithms.
- Worked on real-world projects involving predictive modeling, classification, and AI-based solutions.

## CERTIFICATIONS

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|-----------------------------------------------------------------|-----------------|
| <b>Red Hat Certified System Administrator (RHCSA)</b> - Red Hat | <i>Aug 2026</i> |
| <b>Programming using Java</b> - Infosys SpringBoard             | <i>Feb 2024</i> |
| <b>Python Training</b> - Spoken Tutorial Project, IIT Bombay    | <i>Apr 2024</i> |
| <b>Database Programming with SQL</b> - Oracle Academy           | <i>May 2024</i> |

**Name:** Mohammed Afnan K A

**Place:** Thrissur