

# SYED AFTAB AHMED MADNI

aftabmadni7118@gmail.com | 7676037118 | Bengaluru, Karnataka, India

· [LinkedIn](#)

· [GitHub](#)

## Education

### B.Tech in Computer Science & Engineering

R V College of Engineering, Bengaluru

2023-current

CGPA : 9.50 / 10.00

### 12th PUC Karnataka State Board

Pramana Pu College, Raichur

2021-23

PU Board : 93 %

### 10th Karnataka State Board

S.R.S High School, Raichur

2011-21

KSEEB result : 91.68 %

## Projects

### 1. BotHunter - Real-Time Bot Detection System | Python, PyShark, React

- Developed a real-time network traffic analysis system using PyShark, capturing and processing 14 distinct features (e.g., IP, protocol, ports, byte counts) from live packet data.
- Trained Random Forest and SVM classifiers to accurately differentiate human vs. bot traffic with 96% accuracy, using intelligent flow segmentation and feature engineering.
- Designed and deployed a companion web interface for visualization and bot detection alerts, and applied a greedy strategy for feature selection to maximize model performance.

### 2. Algo Vision – Algorithm Visualizer | React, Tailwind CSS, Framer Motion

- Built an interactive web application to visualize classic algorithms such as sorting, searching, and graph traversal in real time using React and modern UI practices.
- Implemented animated, step-by-step visualizations with features like speed control, dark/light themes, and execution metrics to aid deeper algorithm understanding.
- Showcased strong frontend skills by building modular, scalable components, aligning with industry-grade development standards in interactive educational tools.

### 3. EduEchoLearn AI – SaaS Learning Platform | Next.js, Stripe, Supabase, Vapi AI

- Built a multi-tenant SaaS platform for AI-powered learning using Next.js and Supabase with real-time database operations, enabling instant updates for student progress and interactions.
- Enabled students to engage with content in real-time through interactive sessions rather than static videos or notes, improving overall learning outcomes.
- Integrated Stripe for subscription billing and added a voice-based AI tutor (Vapi AI) to deliver conversational, hands-on learning experiences.

## Skills

- Programming Languages : C, C++, Python, Javascript
- Frameworks and Libraries : ReactJS, NodeJS, ExpressJS, RESTful APIs , Selenium
- Databases Management : MySQL, MongoDB
- Developer Tools : VS Code, Git, GitHub
- Core Concepts : Operating System, Data Structures & Algorithms, Object Oriented Programming, Computer Networks

## Certifications

### Data Science for Engineers | NPTEL

This certification validates expertise in the fundamentals of data science, covering data handling, statistical analysis, and applying machine learning techniques for solving real-world engineering problems.

### Decision Modelling | NPTEL

This certification validates expertise in decision-making techniques, including optimization, simulation, and analytical models, to support problem-solving and management decisions.

## Achievements

- Qualified JEE Advanced** with Category Rank 1458 and General Rank 10,667
- Achieved KCET** Rank 1061

## Extracurricular Activities / Leadership Experience

- Rotaract Club of RVCE – Content Team Coordinator**
- ACCELERATE RVCE – Core Member, Technical Team**