

# Sufiyan Ahmed S A

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## Education

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**PES Institute of Technology and Management, Shivamogga**

2022 – 2026 (Expected)

B.E. in Artificial Intelligence and Machine Learning (AIML)

## Technical Skills

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**Programming:** Python, HTML, CSS, JavaScript, Java, C

**Databases:** MongoDB, MySQL

**Frameworks & Tools:** React.js, Node.js, Express.js, DistilBERT, Flask, PyTorch, TensorFlow, Hugging Face Transformers, OpenCV, Firebase

**Technologies & Skills:** Machine Learning, Deep Learning, NLP, Computer Vision, Image Processing, REST APIs, Git, Responsive Web Design

## Projects

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**Real-Time AQI Air Quality Monitoring System** — Flask + JS + WAQI API (2025)

- Developed real-time AQI monitoring web app with GPS-based live air quality detection.
- Integrated WAQI API with auto-refresh, city search, and 24-hour AQI trend visualization.

**Scam Email Detection Tool** — Machine Learning (2025)

- Behavior-based ML system analyzing user interaction patterns to detect scam attempts.
- Built custom rule-based and text-feature models for elderly user safety.

**Image Steganography Web App** — Python + Flask (2025)

- Secure web app to hide and retrieve encrypted text inside images.
- Designed intuitive UI for privacy and easy communication.

**NewsSense (AI News Classifier)** — Flask + DistilBERT (2025)

- Real-time web app classifying news into multiple categories using DistilBERT.
- Achieved 95% accuracy with optimized transformer fine-tuning.

**Virtual Sound Increaser** — AI + Audio Processing (2024)

- AI tool amplifying faint sounds to aid users with mild hearing challenges.

**Virtual Pitch and Drop** — Game Simulation + AI (2024)

- AI-based pitching game that tracks user throws and improves accuracy via feedback.

**PulseAid** — AI + Computer Vision (2024)

- AI-powered first-aid guidance system providing emergency instructions from injury analysis.

## Certificates

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- Deep Learning with TensorFlow – Covered CNNs, RNNs, and model deployment.
- PyTorch – Building and training deep learning models using PyTorch.
- Hardware and Networking – Certified in computer hardware and network setup.

## Technical Achievements & Leadership

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- Mentored 6 teams in the 12-hour WE-ENV 2025 Hackathon organized by the AIML Department, PESITM.
- Conducted 6-day Full Stack Development Workshop for AIML juniors covering Frontend to Deployment.
- Attended Generative AI Workshop by NxtWave and built first AI model prototype.

## Soft Skills

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Leadership • Mentorship • Team Collaboration • Public Speaking • Presentation Skills