

Aswathy D

Bachelor of Technology
College of Engineering, Adoor
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SUMMARY

Driven and curious undergraduate in computer science and engineering from the College of Engineering Adoor, Kerala. Passionate about exploring innovative technologies and applying them through impactful engineering projects.

EDUCATION

- **Bachelor of Technology in Computer Science and Engineering** 2022-Present
College of Engineering, Adoor CGPA: 9.44
- **Higher Secondary Education** 2020-22
Mar Ivanios Bethany School, Kalayapuram, Kollam Score: 91.8%

PERSONAL PROJECTS

- **AutoGlide: A Smart Instrument-Based Aircraft Landing System** Ongoing (MATLAB Simulation)
An intelligent, sensor-based autonomous landing system inspired by Instrument Landing Systems (ILS).
 - Simulated fog detection using humidity sensor models in MATLAB.
 - Developed altitude monitoring and runway alignment logic with ultrasonic and RF models.
 - Technology Used: MATLAB, Simulink, Sensor Models (DHT11/DHT22, HC-SR04, RF Modules, Servo Motors).
- **Law Firm Website**
Personal Project | advmanoj.s.netlify.app
 - Designed and developed a responsive and SEO-optimized website for a law firm to enhance online presence and client engagement.
 - Implemented sections for advocate profile, legal services, and a secure contact form.
 - Technology Used: HTML, CSS, JavaScript Bootstrap, Netlify.
- **Hostel Management System**
An online web application for managing the day to day administration of a hostel.
 - Developed the backend using PHP and MySQL for efficient data management.
 - Developed the frontend using HTML, CSS, JavaScript, Bootstrap for user-friendly interface.
 - Technology Used: PHP, MySQL, HTML, CSS, JavaScript, Bootstrap.

PROFESSIONAL EXPERIENCE

- **Cybersecurity Intern** July 2024
Technovalley Software India Private Limited Kochi, Ernakulam
 - Conducted hands-on research and implementation of Man-In-The-Middle (MITM) attacks using packet capturing techniques with Wireshark.
 - Analyzed network traffic to understand vulnerabilities in unsecured communication protocols.
- **AI Research Intern** May 2025 – June 2025
Amrita School of Artificial Intelligence Coimbatore, Tamil Nadu
 - Worked on the research paper "**Performance Evaluation of Machine Learning and Deep Learning Models in Rice Yield Prediction**".
 - Applied AI techniques in model evaluation and gained exposure to innovations in Power Energy and Electric Vehicles.

TECHNICAL SKILLS AND INTERESTS

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

Frameworks: Bootstrap

Cloud/Databases: Relational Database (MySQL), PHP

Areas of Interest: Web Design and Development, Cybersecurity

Soft Skills: Public Speaking, Leadership & Team Management, Problem Solving, Self-learning, Presentation

POSITIONS OF RESPONSIBILITY

- Quiz Club Member** IEEE Student Branch College of Engineering Adoor *2022 - 2023*
 - Actively contributed to organizing and conducting technical and general knowledge quiz competitions within the institution and during intercollegiate IEEE events.

CERTIFICATIONS & ACHIEVEMENTS

- AI Fundamentals - IBM SkillsBuild:** Successfully completed the course on AI fundamentals. *2025*
- AI Appreciate & AI Aware:** Successfully completed stages of AI for All program by Intel & Govt. of India. *2025*
- NPTEL Online Certification:** Successfully completed the course on Introduction to Programming in C. *2024*
- Spectrum Talk - IEEE SB College of Engineering Adoor :**Delivered an engaging session on the Metaverse. *2023*
- AutoCAD and SketchUp Basics - IIT KGP :**Attended a one-day design workshop by Techmaghi. *2023*
- NOXUS - AI Hands on Workshop :**Gained practical experience with basic AI concepts *2022*