Devaprabha Biju S

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 Devaprabha-aka-deva

PROFILE SUMMARY

Passionate about software development, data science, and problem-solving, with experience in Python, Java, and C. Skilled in algorithms, machine learning, and web technologies, with a strong foundation in networking and IoT. Adaptable, detail-oriented, and a collaborative team player with excellent communication skills.

EDUCATION

Amrita Vishwa Vidyapeetam, School of Engineering   Amritapuri, Clappana
Bachelor of Technology, Electrical and Computer Engineering   October 2023-2026
Emphasis, Software and Hardware Development   CGPA: 9.02/10

RELEVANT COURSEWORK

Data Structures & Algorithms | Operating Systems | Machine Learning | Computer Architecture | Web Development | Smart Grid & IoT

TECHNICAL SKILLS

- **Programming Languages:** Python, C, Java, SQL
- **Data Science & Analytics:** Pandas, NumPy, Seaborn, Matplotlib, Machine Learning
- **Software Development:** REST API, Python Flask, Web Scraping (BeautifulSoup, Requests, Scrapy, Selenium)
- **Algorithms & Systems:** Data Structures & Algorithms (Java), Operating Systems, Computer Architecture
- **Networking & IoT:** Smart Grid & IoT, Sensors & Sensor Circuit Design

PROJECT EXPERIENCE

Sentiment Analysis Using BERT   Year: 2025
- Developed an AI-powered sentiment analysis web app using Watson AI, Flask, and BERT, enabling real-time multilingual sentiment classification.
- Optimized performance with robust error handling and static code analysis, ensuring high accuracy and reliability.

Business AI Meeting Companion STT   Year: 2025
- Engineered an AI-driven transcription & summarization tool using OpenAI Whisper & IBM Watson AI, enhancing meeting productivity.
- Integrated speaker identification & contextual tagging, improving transcript readability and decision-making.

Stress Prediction Using Gait Analysis   Year: 2024
- Engineered an ML model utilizing gait analysis and MPU-6050 sensors to predict stress levels with high accuracy.
- Applied feature extraction techniques and machine learning algorithms, enhancing real-time stress detection.

Autonomous Path-Navigation Robot   Year: 2024
- Developed a self-navigating robot utilizing real-time sensor feedback and advanced path optimization algorithms for obstacle detection and avoidance.
- Implemented PID control and SLAM-based mapping, enhancing navigation accuracy and adaptability in dynamic environments, making it suitable for real-world applications.

INTERNSHIP

United Electricals Industries Ltd.   27th-31st January 2025
- Completed an internship at United Electricals, gaining experience with energy meters, motor starters, solar systems, manufacturing, quality control, and project management.

Certificate of Completion: January 31st, 2025

Data Visualisation Intern , Tata Forage   April 2024 - May 2024
- Completed practical tasks including framing business scenarios, selecting appropriate visuals, creating impactful visual representations, and communicating insights and analysis to drive business decisions.

Certificate of Completion: May 12th, 2024 (Forage)

STUDENT SOCIAL RESPONSIBILITY PROJECT

Topic: Menstrual Health   Year: 2024

Location: Vocational Higher Secondary School, Arkkannoor

Advocated for menstrual health awareness through a social responsibility project, aiming to educate communities and promote open conversations for better well-being.

CERTIFICATES

- Python for Data Science, AI & Development – **IBM via Coursera**   Nov 25 2024
- Introduction to Software Engineering (with honors) – **IBM via Coursera**   Sep 2024
- Generative AI: Introduction and Applications – **IBM via Coursera**   Sep 2024
- Introduction to HTML, CSS, & JavaScript – **IBM via Coursera**   Oct 2024
- Tata Data Visualisation: Empowering Business with Effective Insights – **Tata Forage**   May 2024

AREAS OF INTEREST

Embedded Systems and IoT, Electric Vehicle Technology, Renewable Energy and Sustainability, Control Systems and Automation, Software Development

AWARDS

Badge: Software Engineering Essentials   Year: 2024

Completed the Software Engineering Essentials course on Coursera, showcasing foundational knowledge in software engineering principles.

Badge Link: View Badge

Badge: Generative AI Essentials   Year: 2024

Completed the Generative AI Essentials course on Coursera, highlighting skills in generative AI technologies and applications.

Badge Link: View Badge

Certificate: Phase Share of CII Young Indians IDS 4.0   Year: 2023

Got selected for "Nano-Enhanced Mini Evaporative Cooler" idea in the Phase Share of CII Young Indians IDS 4.0, a flagship initiative focused on creating a grassroots-level innovation ecosystem in India.

Certificate: Certificate of Energy Literacy   Year: 2023

Successfully completed a 12-module course on energy generation, consumption, carbon footprint, and solar energy solutions, awarded by the Energy Swaraj Foundation on March 21, 2023.

EXTRACURRICULAR

Robotics Club, contribution to various autonomous and AI-driven projects.
- Completed the Autonomous Path-Navigation Robot project.
- Researched and explored the capabilities of the NAO humanoid robot.

Anomaly Detection System (ADS) Module Design (Ongoing):
- Utilizes machine learning for anomaly detection in substations.
- Wireless device enables packet capture on switches.

HOBBIES

Solving LeetCode challenges, exploring robotics innovations, staying updated on emerging technologies

LANGUAGE PROFICIENCY

English: Read / Write / Speak / Understand