ABHISHEK ANAND

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Profile

Passionate and results-driven Software Developer with hands-on experience in building scalable web applications and intelligent systems. Proficient in programming languages including Python, Java, C, and C++, with a solid grasp of Object-Oriented Programming, Data Structures, Operating Systems, and Database Management (SQL/NoSQL). Demonstrated expertise in full-stack development and machine learning through academic and personal projects, including AI-powered navigation systems and predictive analytics for cloud optimization. Proven ability to lead teams, solve complex problems, and deliver impactful solutions under tight deadlines. Strong communication, leadership, and collaborative skills with a commitment to continuous learning and innovation.

Education

2021 – 2025 Kollam, India	**B-Tech/ Computer Science** *Amrita Vishwa Vidyapeetham, Amritapuri* Current CGPA - 6.5
2019 – 2021 Kottayam, India	**Higher Scondary Education (XII), CBSE Board** *Aravinda Vidyamandiram* CBSE - 90%
2019 Kozhikode, India	**Secondary Education (X), CBSE Board** *Veda Vyasa Vidyalayam* CBSE - 80.4%

Projects

2025 – present	**AI-Powered Vision and Voice Navigation for the Visually Impaired: A Smart Indoor Guidance System** *Final Year Project* • Developed a **Computer Vision-Based Voice-Assisted Indoor Navigation System** to aid visually impaired individuals in real-time obstacle detection and guidance. • Integrated the real-time object detection and depth estimation system using YOLOv8 and MiDaS to identify indoor obstacles. • Integrated voice assistance via gTTS for seamless navigation guidance tailored to visually impaired users. • Achieved 85–90% detection accuracy with low-latency audio feedback (~200ms) ensuring timely and reliable assistance.
2024	**Attendify (Attendance Management Website)** *Full Stack Development with Java* • Developed a web-based attendance management system using Angular (frontend) and Java (backend). • Implemented role-based access control for secure user interactions. • Delivered a responsive and user-friendly platform for optimal device compatibility.
2024	**Online Book Rental System** *Software Engineering Project* • Created a platform to connect book owners with potential readers for lending and renting books.

- Designed an intuitive interface for listing and renting books, fostering affordability and convenience.

2024 **Enhancing Cloud Performance: Deep Learning for VM Workload Prediction**
Cloud Computing
  - Built predictive models using Deep Belief Networks (DBN) and Neural Networks to optimize cloud resource management.
  - Focused on accurate VM workload forecasting to enhance resource allocation and reduce operational costs.

2023 **Movie Success Prediction Using Machine Learning Models**
Machine Learning
  - Analyzed box office trends using machine learning models like KNN, Decision Tree, SVR, and Linear Regression.
  - Evaluated model performance across four diverse datasets to determine predictive accuracy.

Technical Skills

Coding Languages:
- Python
- Java
- C++
- HTML
- CSS

Database:
- SQL
- NoSQL

Techinacal Areas:
- Software Development
- Machine Learning
- Operating Systems

Soft Skills:

Communication Skills:
Fluent in English and Malayalam with strong communication skills in English and strong local language proficiency.

Teamwork and Collaboration:
Demonstrated ability to work effectively in team settings.

Leadership Skills:
Proven experience in leading project teams and workshops.

Problem Solving
Skilled in problem-solving, leveraging strategic insights and analytical precision developed through competitive chess.

Decision Making:
Experienced in making timely decisions in project management.

Self-Motivation:
Driven by targets and a go-getter attitude.

Courses

2023 **Introduction To Machine Learning (NPTEL)**
Indian Institute of Technology - Madras
  - Completed a course on Machine Learning offered by Indian Institute of Technology Madras through NPTEL.

2023 **Introduction To Data Science (NPTEL)**
Indian Institute of Technology - Kharagpur
  - Completed a course on Data Science offered by Indian Institute of Technology Kharagpur through NPTEL

Community Outreach Program

2023
Kollam, India

Unchain: Breaking Addiction Together | SSR Project

Amrita Vishwa Vidyapeetham

"Unchain: Breaking Addiction Together" is an initiative aimed at addressing the multifaceted challenges of addiction. Recognizing that addiction can manifest in many forms, from substance abuse like alcohol, tobacco, and opioids to behavioral addictions such as gambling, eating, and video gaming, this project seeks to provide comprehensive support and recovery strategies tailored to individual needs

Position Of Responsibility

2023
Kollam, India

Amrita Blockcamp / VIDYUT

Team lead - Registration Team

Led the registration team at Amrita Blockcamp. The main responsibilities were to coordinate the registration, swag distribution, providing and taking care of wifi connection.