Alavala Bharath Babu

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Summary

A dedicated engineering student focused on AI, ML, and Deep Learning, with practical experience in developing intelligent systems and web-based applications. Skilled in designing algorithms and building functional, user-friendly web interfaces. Eager to learn and contribute in both collaborative and independent settings. Experienced in data analysis and machine learning model optimization, with a passion for continuous improvement. Adept at balancing technical challenges while delivering practical, real-world solutions.

Technical Experience

AWS AI-ML Virtual Internship   Jan 2025 - March 2025
AWS Academy

- Gained hands-on experience with AWS services like Amazon SageMaker, Lambda, and S3 for deploying and managing machine learning models in cloud environments.
- Developed and optimized ML models, focusing on real-world cloud-based applications and solutions using AWS tools.
- Worked on projects that involved applying supervised learning algorithms and model training to derive actionable insights from data.

Web Development Intern   Feb 5[2025] - March 5[2025]
Motion Cut

- Developed and designed responsive web applications using HTML, CSS, and JavaScript, with a focus on creating user-friendly and visually appealing interfaces.
- Worked with mentors to understand web development best practices, ensuring clean, maintainable code and optimizing website performance.

Mastering Data With Machine Learning Internship   October 2024
IBM Skills Build

- Gained practical experience in key machine learning concepts, including data preprocessing, model evaluation, and hyperparameter tuning.
- Worked on supervised and unsupervised learning algorithms to develop predictive models using Python.
- Collaborated with instructors and peers to refine problem-solving strategies and enhance model performance.

Projects

Lane Detection in Autonomous Vehicles   June 2024

- Developed a model for accurate lane detection in autonomous vehicles, focusing on improving detection accuracy under varying road conditions to enhance safety and reliability of autonomous driving systems. Implemented using Python and OpenCV.
- Tools Used: Python | OpenCV | NumPy | Pandas | Matplotlib | TensorFlow

An Enhanced Deep Learning Framework for Pavement Distress Detection (Ongoing)   Ongoing

- Developed an enhanced deep learning framework for accurate pavement distress detection, contributing to improved road safety and infrastructure management. The framework leverages the YOLOv8 model for defect detection, combined with a Swin Transformer for increased precision.
- Tools Used: YOLOv8 | PyTorch | Swin Transformer | Weighted Box Fusion | DeepLabV3 | Pandas | NumPy | Python

Skills

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

Core Domain Skills: Machine Learning, Deep Learning

Computer Science Concepts: Data Structures and Algorithms, Object-Oriented Programming, Operating Systems.

Other Skills: Ms-Word, Problem Solving, Communication, Team Work.

Courses and Certifications

- AWS AI-ML Virtual Internship (2025)
- Learning Plan for Mastering Data with Machine Learning Internship on IBM Skills Build (2024)
- Google Cloud Career Launchpad - APAC Member (Gold League) -View Profile
- Certificate in Web Development Intern on MotionCut (2025)
- NPTEL Elite in Soft Skills (2024)
- NPTEL in Privacy and Security in Online Social Media (2024)
- NPTEL in The Joy of Computing Using Python (2023)
- Certificate in Level 1 E-Commerce & Tech Quiz of the Flipkart GRiD 6.0 - Software Development (2024)
- Agnirva Space Internship Program (2024)

Co-Curricular and Extra Co-Curricular Activities

- Actively participated in college events as a member of the dance crew, contributing to team performances at two induction fests and two traditional day celebrations [2023,2024 and 2025].
- Performed at the College Athenes event, showcasing creativity and teamwork through choreography and execution [2024 and 2025]

Education

BV Raju Institute of Technology	**June 2026**
Bachelor of Technology in Artificial Intelligence and Machine Learning	*CGPA-7.71*
Krishnaveni Junior College	**April 2021**
Intermediate Education	*Score-935*
TS Model School	**April 2020**
Secondary Education	*GPA-10*