

Abhinav Saluja

Bengaluru, Karnataka

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CAREER OBJECTIVE

Aspiring software engineer skilled in full-stack development, cloud, and computer vision, eager to build scalable applications and contribute to impactful projects.

EDUCATION

- **Bachelor of Technology in Computer Science Engineering** 2022 - Present
Amrita School of Computing, Bengaluru, Karnataka CGPA: 9.41
- **High School Diploma (CBSE)** 2022
Blue Bells Model School, Gurugram, Haryana Percentage: 90.4%
- **Higher Secondary (CBSE)** 2020
Blue Bells Model School, Gurugram, Haryana Percentage: 96.5%

WORK EXPERIENCE

- **Research Intern – Road Infrastructure Detection under Blowing Snow Conditions** May 2025 – July 2025
Amrita Vishwa Vidyapeetham, Bengaluru & University of Wyoming
 - Worked on annotating a new road infrastructure dataset and applying computer vision techniques for ADAS in challenging blowing snow conditions.
 - Achieved improved detection and tracking of road infrastructure by fine-tuning SAM 2.1 on the custom annotated dataset.
 - Gained expertise in Computer Vision, Deep Learning model fine-tuning, and dataset annotation using Python and PyTorch, strengthening skills in deep learning and research workflows.

PROJECTS

- **RootWise: Intelligent Plant Disease Detection App** Feb 2025 – Apr 2025
Amrita Vishwa Vidyapeetham, Bengaluru
 - Led a 4-member team to build a cloud-hosted, mobile-first app achieving 99.04% accuracy in real-time plant disease detection using EfficientNet and field datasets.
 - Implemented a recommendation module that provides care and treatment suggestions for detected plant diseases.
 - Deployed real-time inference with a Java Spring Boot backend and MongoDB for authentication, image storage, and history tracking.
 - **Tech Stack:** Node.js, React Native, Java, Spring Boot, TensorFlow, MongoDB, SQL, Python
- **Automated Multilingual Video Translation Framework** Oct 2024 – Nov 2024
Amrita Vishwa Vidyapeetham, Bengaluru
 - Developed an AI pipeline to translate and dub videos in 15+ languages using Whisper, NLLB, and gTTS with 98% alignment accuracy.
 - Integrated speech segmentation, real-time sync, and scalable workflows for accessibility.
 - **Tech Stack:** Python, Whisper, NLLB, gTTS
- **MARS Library Management System** Dec 2023 – Jan 2024
Amrita Vishwa Vidyapeetham, Bengaluru
 - Built a secure library management system for 300+ users with REST APIs in Spring Boot and React frontend.
 - Implemented email-based verification and login, reducing book search and check-in times by 40%.
 - **Tech Stack:** Spring Boot, Microservices, Java, React, MySQL

CERTIFICATES

- **Deep Learning for Computer Vision (Elite)** December 2024
- **AWS Cloud** March 2025

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C++
Frameworks: Spring Boot, React
Cloud/Build Tools: AWS Cloud, Git, MySQL, MongoDB
Development Areas: Full-Stack Development, Mobile Applications, Data Science, Computer Vision
Soft Skills: Leadership, Team Collaboration, Adaptability, Problem Solving, Quick Learner

EXTRA-CURRICULAR ACTIVITIES

- **National Students Data Corp (NSDC) Vice President** Aug 2024 – Present
Led Machine Learning and Data Science sessions; organized on-campus and external hackathons
- **Google Developer Student Club (GDSC) ASEB Technical Team Member** Sep 2023 – Aug 2024
Delivered workshops on Full Stack Development and fundamentals of Machine Learning / Deep Learning
- **CodeChef Club Senior Executive** Sep 2023 – Aug 2024
- **Tennis** Actively participating and competing at the university level Ongoing