



Bharathsimha Reddy Mandadhi

Nationality: Indian **Date of birth:** 01/03/2003 **Gender:** Male

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ABOUT MYSELF

With a Bachelor's in Computer Science, I developed a solid foundation in technology and a strong interest in how data, AI, and machine learning are transforming daily life. I now aim to pursue a Master's to deepen my expertise and contribute to the field.

EDUCATION AND TRAINING

Bachelor of Technology

Vellore Institute of Technology, Andhra Pradesh (VIT-AP University) [20/09/2020 – 21/09/2024]

City: Amaravati | **Country:** India | **Field(s) of study:** Computer Science and Engineering with Specialisation in Artificial Intelligence | **Final grade:** 9.01 CGPA

Class XII

Narayana Junior College [14/06/2018 – 18/03/2020]

Final grade: 98.2 %

Class X

Keshava Reddy High School [14/06/2017 – 29/03/2018]

Final grade: 9.5 CGPA

PROJECTS

Driver Drowsiness Detection (Machine Learning, Raspberry Pi 4)

Developed a real-time drowsiness detection system on Raspberry Pi 4 using Haar Cascade for face detection and facial landmark models for low-latency feature extraction and suitability in limited-resource environments. Demonstrated edge-based ML for vehicular safety, focusing on real-time computer vision and embedded systems.

Image Fusion for Medical Imaging

Developed a Python GUI-based Image Fusion system using DWT, CNNs, and Laplacian Pyramid for CT/MRI modalities. Integrated complementary anatomical and functional data using different techniques to achieve superior fused images, evaluated rigorously with quantitative metrics for medical analysis.

Yelp Camp - A Full-Stack Web App

Developed YelpCamp, a dynamic campground platform with user authentication, full CRUD operations, and Mapbox API integration. Built using Node.js, Express.js, and MongoDB, deployed on Render and MongoDB Atlas to provide enhanced campground discovery and review management.

CERTIFICATIONS

AWS - Certified Cloud Practitioner

NVIDIA - DLI Certification: Fundamentals of Deep Learning

SKILLS

Programming & Query Languages

Python, Java, SQL

Databases & Cloud Technologies

MongoDB, MySQL, AWS

Libraries & Frameworks

TensorFlow, Keras, Scikit-learn, OpenCV, Matplotlib, Seaborn, Pandas, NumPy, SMOTE

Web Development

Javascript, HTML5, CSS3, ExpressJS, NodeJS

Soft Skills

Problem Solving, Communication, Adaptability, Team Collaboration

PRACTICAL EXPERIENCE & INTERNSHIPS

[02/2025 – Current]

Data Science Remote Internship - CodeAlpha

Applied preprocessing, feature selection, and statistical techniques to refine data and models; enhanced performance through hyper-parameter tuning and rigorous evaluation.

ACHIEVEMENTS

Top 10 Project – Driver Drowsiness Detection

Recognized among the top 10 projects at the VIT-AP Engineering Clinics Expo.

Academic Excellence – B.Tech, VIT-AP University

Graduated with a CGPA of 9.01/10 in Bachelors, highlighting consistent academic performance.

PROFESSIONAL DEVELOPMENT

[09/2024 – Current]

Post-Bachelor's Skill Enhancement and Preparation

Following my Bachelor's, I earned the AWS Cloud Practitioner certification and received full-time offers from Wipro and TCS, but chose to pursue a Master's aligned with my long-term goals. I completed the IELTS (Overall Band: 7), am gaining hands-on experience through a Data Science internship, and learning German to support my academic and cultural integration in Germany.