



Bharathsimha Reddy Mandadhi

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Website: <https://bharath9812.github.io/portfolio/>

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) [08/2020 – 05/2024]

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

Class XII - Senior Secondary School

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

Final grade: 982 / 1000

Class X - Secondary School

Keshava Reddy EM High School [06/2017 – 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 & INTERSHIPS

[02/2025 – 05/2025]

Data Science Virtual Internship - CodeAlpha

Executed data preprocessing, feature selection, and applied statistical techniques to optimise machine learning models. Improved performance through hyper-parameter tuning and rigorous evaluation.

Link: <https://github.com/bharath9812/Data-Science-Internship-CodeAlpha>

ACHIEVEMENTS

Top 10 Project – Driver Drowsiness Detection Project

Recognised as one of 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 Bachelor's Degree, reflecting strong academic performance.

PROFESSIONAL DEVELOPMENT

[06/2024 – Current]

Postgraduate Preparation and Skill Enhancement

Earned the AWS Cloud Practitioner certification and completed the IELTS. Currently, I am gaining practical experience through a Data Science virtual internship and learning the German language to support my academic and cultural integration in Germany.