Bharath Chelimalla

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Education

SR University, B.Tech in Computer Science and Engineering — August 2021 – April 2025

- GPA: 7.9/10.0
- **Coursework:** Algorithms and Data Structures, Database Management, Machine Learning, Operating Systems, Scripting Languages, Theory of Computations, and Computer Networks, .

Skills

Programming Languages: Python, C, Java
Web Development: HTML, CSS, JavaScript
Text Editors: VS Code, Jupyter Notebook
Database Management: SQL, SQLite, MySQL
Frameworks: TensorFlow, OpenCV, Scikit-learn
Tools: Streamlit, Keras, Pandas

Experience

Web Development Intern, CodSoft — July 2024 – August 2024

- Built a dynamic landing page with a search bar, hover effects, and drop-down menus, improving user engagement by 20% and enhancing navigation.
- Designed a fully responsive portfolio website using HTML and CSS, ensuring compatibility 100% across all screen sizes for a seamless user experience.

AIML Intern, Google for developers – AICTE-EduSkills — April 2024 – June 2024

- Gained practical experience in AI/ML techniques, focusing on deep learning and natural language processing.
- Leveraged TensorFlow and scikit-learn to enhance data models for predictive analytics and improve performance.

Machine Learning Intern, Campalin Innovations — May 2023 – June 2023

- Gained hands-on experience in machine learning algorithms and applied them using Python.
- Developed a stock price prediction model by analyzing historical data and using regression techniques.

Projects

Sign Language Recognition — Source Code

- Developed a hand sign recognition system with 92.8% accuracy using MediaPipe and a neural network, ensuring minimal latency for real-time interaction.
- Extracted 21 hand landmarks and classified gestures using a neural network, enabling applications in sign language interpretation and gesture-based control.
- Tools used: Visual Studio Code, Python

Fraud Detection in Banking System — Source Code

- Built a credit card fraud detection model using multiple Machine Learning algorithms, achieving a precision of more than 96%.
- Optimized 12 Models including Voting Classifiers with Bayesian optimization and deployed via Streamlit for real-time fraud detection.
- Tools used: Jupyter Notebook, Python, Streamlit Cloud

AI in Mental Health — Source Code

- Developed a mental health prediction system using machine learning algorithms, achieving more than 95% accuracy in identifying early signs of instability, with features such as mood tracking and personalized recommendations.
- Implemented a user-friendly Streamlit interface for real-time predictions and chat support, improving accessibility for users seeking mental health assistance.
- Tools used: Jupyter Notebook, Python, Streamlit, SQLite

Certifications

- **Database Management System** (NPTEL)
- **NLP Specialization** (DeepLearning.AI)
- **Mobile App Development** (Infosys Springboard)
- **Machine Learning with Python** (Intern at Campalin Innovations)
- **CV Projects Expo 2024** (Ready Tensor)