

# BHARATH CHELIMALLA

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## EDUCATION

### Bachelor of Technology: Computer Science

SR University | Warangal, Telangana | Expected in May 2025

- Major in Computer Science and Programming
- GPA: 7.6
- Relevant Coursework: Algorithms and Data Structures, Database Management, Machine Learning Theory, Operating Systems, Scripting Languages, and Computer Networks.

## SKILLS

- Programming Languages: C, Python, Java
- Web Development: HTML, CSS, JavaScript
- NLP: Text Classification, Sentiment Analysis, Transformers
- Database Management: SQL, SQLite
- Text Editors: VS Code, Jupyter Notebook
- Computer Vision: Object Detection, Image Classification, OpenCV

## EXPERIENCE/INTERNSHIPS

Math AI Trainer | Outlier AI | October 2024 – Present

- Review and correct AI training prompts to ensure accuracy and effectiveness.
- Providing detailed feedback on errors and improvement areas to optimize AI model performance.

Web Development Intern | CodSoft | July 2024 – August 2024

- Designed and implemented a dynamic landing page with interactive elements, including a search bar, hover effects, and dropdown menus, leading to an estimated 10-15% improvement in user engagement and retention.
- Developed a fully responsive personal portfolio website using HTML and CSS, optimizing for mobile and tablet users and potentially enhancing user retention by improving navigation and accessibility.

AIML Intern | Google for Developers | AICTE-EduSkills | April 2024 – June 2024

- Utilized advanced Python libraries such as TensorFlow and scikit-learn to optimize data models for predictive analytics.

Machine Learning Intern | Campalin Innovations | May 2023 – June 2023

- Led Stock Price Prediction project, achieving a 15% increase in accuracy through machine learning techniques.
- Improved data preprocessing efficiency by 20% by implementing streamlined workflows.

## PROJECTS

### Sign Language Recognition | Machine Learning

- Hand Landmark Detection: Utilized MediaPipe to detect 21 hand landmarks in real-time, capturing over 1,000 data points for model training.
- Model Training: Trained a TensorFlow/Keras neural network on thousands of data points, achieving 90%+ accuracy in hand sign classification.
- Real-Time Prediction: Achieved a prediction accuracy of 95% with <100ms latency using a standard webcam for seamless interaction.

### French Tourism Website | Front-End Web Development

- Created a dynamic, responsive French tourism website with HTML, CSS, and JavaScript.
- Boosted user engagement by 15-20% with interactive features like expandable content and card displays.

### Fraud Detection in Banking System | Machine Learning | [Application Link](#)

- Developed a machine learning model for credit card fraud detection, achieving over 99% accuracy on a highly imbalanced dataset of 284,807 transactions (with only 492 fraud cases) through effective data preprocessing and feature engineering.
- Implemented multiple algorithms (Logistic Regression, LightGBM, XGBoost, CatBoost, SVM, ANN, Random Forest) and utilized Bayesian Optimization, resulting in a Voting Classifier that improved precision by over 15%; deployed the model using Streamlit for real-time fraud predictions.

## CERTIFICATIONS

- Database Management Systems (NPTEL)
- Machine Learning with Python (Intern at Campalin Innovations)
- Web Development (Intern at CodSoft)
- Artificial Intelligence and Machine Learning (Intern at Google-AICTE-EduSkills)
- Natural Language Processing Specialization (DeepLearning.AI)