

OM SHREE CHOUDHARY

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EDUCATION

RNS Institute of Technology
B.E. CSE (AI&ML), GPA: 8.95

Bengaluru, Karnataka
August 2023 - August 2027

SKILLS SUMMARY

Languages:	HTML/CSS, JavaScript, C, C++, Python
Frameworks:	NumPy, Pandas, Matplotlib, TensorFlow, scikit-learn, FastAPI, Hugging Face Transformers, Flutter, Firebase SDK
AI & ML:	Machine Learning, Deep Learning, CNN, NLP, ASR, Time-Series Forecasting
Data & Analytics:	Data Analysis, Data Preprocessing, Feature Engineering, Model Evaluation
Platforms:	Visual Studio Code, Jupyter Notebook, Android Studio, Firebase
Tools:	Git, Excel, PowerPoint, Photoshop

WORK EXPERIENCE

Artificial Intelligence and Data Analytics Intern

January 2025 - February 2025

Technologies & Skills: Python, TensorFlow, Convolutional Neural Networks (CNN), Computer Vision, Image Classification, Data Preprocessing, Data Augmentation, Deep Learning

- Successfully completed a four-week internship with Edunet Foundation in collaboration with AICTE and Shell under the Skills4Future program where developed a CNN model achieving 92% validation accuracy in classifying 5+ types of plastic waste using TensorFlow
- Enhanced model performance by 15% through advanced data preprocessing and augmentation of 10,000+ training images.
- Contributed to sustainable development goals by automating waste sorting, reducing manual classification errors by 30%.

PROJECTS

1. Anuvad: Real-Time Speech Captioning System

Smart India Hackathon (SIH) 2025 Winner | Ministry of Social Justice & Empowerment

Technologies & Skills: Automatic Speech Recognition (ASR), Speech-to-Text, NLP, Audio Processing, Real-Time Systems, Python, Deep Learning, Accessibility Engineering

- Developed a real-time AI-based speech-to-text captioning system for accessibility of Deaf and Hard-of-Hearing users.
- Implemented Automatic Speech Recognition (ASR) pipelines optimized for low latency and high transcription accuracy.
- Designed a scalable architecture suitable for deployment across educational institutions and public services.
- Recognized as a national-level winning solution at Smart India Hackathon (SIH) 2025.

2. VITA: Vital Intelligence for Transit Antifragility & AEGIS Risk Coordination Platform

AI-Powered Supply Chain Intelligence & Risk Simulation Platform

Technologies & Skills: Flutter, Firebase, FastAPI, Python, NetworkX, NumPy, React, Google Maps API, Gemini API

- Developed a cross-platform logistics intelligence platform for real-time fleet monitoring and operational analytics using Flutter and Firebase.
- Engineered graph-based disruption simulation and resilient route optimization services using FastAPI, NetworkX, and NumPy.
- Integrated AI-powered operational recommendations and interactive dashboards for decision support and supply-chain resilience.

3. Abhaya: Intelligent Personal Safety & Telemetry System

AI-Based Personal Safety & Emergency Response Application

Technologies & Skills: Flutter, Dart, Firebase, TensorFlow Lite, BLE, Google Maps API, Device Sensors

- Developed an AI-powered personal safety application combining on-device machine learning, sensor analytics, and cloud-based monitoring.
- Implemented fall detection, stalking detection, and multi-sensor risk assessment using accelerometer, gyroscope, BLE, GPS, and audio signals.
- Built automated SOS workflows with real-time evidence synchronization, guardian monitoring, and offline indoor safety support.

4. Chatbot Development

Technologies & Skills: Python, FastAPI, MongoDB, NLP, Intent Classification, Sentiment Analysis, BERT, DistilBERT, REST APIs

- Developed an NLP-based chatbot using Python, FastAPI, and MongoDB with intent classification and sentiment analysis.
- Achieved 87% intent recognition accuracy using BERT/DistilBERT models across 100+ query types.
- Maintained 92% sentiment analysis precision over 1,000+ test conversations using context-aware fallback mechanisms.

ACHIEVEMENTS

Smart India Hackathon (SIH) Winner – 2025: Won national-level hackathon organized by Govt. of India for solving a real-world problem statement issued by the Ministry of Social Justice and Empowerment, competing against 1,000+ teams across India.

Research Paper Presentation – 2026: Presented the paper “Disease Risk Assessment Using Climatic Indicators: An AI-Based Approach for Public Health Monitoring” at Manipal Academy of Higher Education (MAHE), Bengaluru, showcasing an AI-based disease risk prediction system integrating climatic and public health datasets for proactive surveillance.

NTSE Rank Holder: Achieved 3rd position in the National Talent Search Examination (NTSE), a prestigious national-level competition.

Typing Proficiency: 90+ WPM typing speed (95% accuracy) with efficiency in transcription, coding, and real-time documentation tasks.

Public Speaking and Presentations: Delivered several presentations to audiences of 50+ students at college orientations and NSS events. Recognized as "Best Speaker" in 3 departmental events for clear communication and audience interaction techniques.