

Nukaraju Neradabilli

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Career Objective

Passionate software engineer and fresher with expertise in NLP, AI, ML, web development, and cloud computing. Proficient in Python, Java, HTML, CSS, JavaScript, and Flask. Experienced in speech processing and AI applications. Seeking to drive innovation and deliver impactful solutions in AI and speech processing.

Technical Skills

Full-Stack Development: HTML, CSS, Bootstrap, JavaScript, Flask

Programming: Python (proficient), Java, C, SQL, Data Structures and Algorithms (DSA)

NLP: NLTK, SpaCy, Gensim, Transformers, LLMs, Generative AI, Tokenization, Named Entity Recognition (NER), Sentiment Analysis, Topic Modeling, Text Classification, Word Embeddings

Machine Learning & Deep Learning: TensorFlow, Keras, PyTorch, Scikit-Learn, NumPy, Pandas, Seaborn, Matplotlib, Regression, Classification, Clustering, Neural Networks, Decision Trees, Random Forests, SVMs

Cloud Platforms: AWS, Azure **Developer Tools:** VS Code, GitHub, Git

Professional Experience

Research Intern, Speech Processing Lab | IIIT Hyderabad

Jul 2024 - Present

- Currently working with ASR, TTS systems (VITS), and Python libraries for audio processing (pydub, WhisperX).

Intern Software Trainee, Prodigy Software Solutions | Visakhapatnam

Feb - May 2024

- Conducted data scraping for stocks and mutual funds from diverse sources, categorizing data by sectors, and utilized data analysis to pinpoint top-performing stocks and mutual funds based on specific criteria.

ML Project Intern Enlignence Technology Labs | VIT Bhimavaram

May-Dec 2023

- Developed an **automated grading system** using **speech recognition** and **NLP**, integrating **WhisperX Speaker Diarization** and top Whisper models. Assessed responses with **GPT-3.5-turbo** and evaluated performance using MAE, RMSE, and Pearson Correlation

Projects and Research

Job Market Analysis Tool using live data from Naukri.com

[Source Code](#)

- Developed a **Flask** application offering insights into job demand, salary predictions, and skill enhancement, utilizing **Selenium** for scraping Naukri.com job postings and Automated ML on **Azure** for model training and deployment.

NLP and AI-powered Resume Matchmaker

[Source Code](#)

- Developed a Streamlit app using NLP technologies (**HuggingFace-BERT**, **Doc2Vec**, **Generative AI**) for matching resumes with job descriptions, generating enhancement suggestions, and evaluating model precision with MSE and RMSE.

Water Quality Prediction Web App using Machine Learning 📁

[Source Code](#)

- Developed a **Flask** web app using **XGBoost** to predict Water Quality Index (WQI) for East and West Godavari districts, achieving 89% accuracy in water potability after extensive analysis of 3276 samples and rigorous model testing.

Educational Qualification

Bachelor of Information Technology, Vishnu Institute of Technology, Bhimavaram (CGPA: 8.42)

2021 - Expected 2025

Intermediate, MPC, Sri Chaitanya College of Education, Visakhapatnam (95.2%)

2019 - 2021

Secondary Education, Jawahar Navodaya Vidyalaya (JNV), Vizianagaram (88%)

2014 - 2019

Certifications

Web Development: HTML, CSS, and Javascript for Web Developers (Coursera) 📁

NLP: DeepLearning.AI Natural Language Processing with Classification and Vector Spaces (Coursera) 📁

IASNLP-2024: Advanced training in Natural Language Processing, IIIT Hyderabad 📁

DSA: Data Structure And Algorithms Using Java - Score: 72%(NPTEL) 📁

Data Science and Machine Learning: Intro to Programming 📁, Python 📁, Pandas 📁, Intro to Machine Learning 📁 (Kaggle)

Achievements

Solved **100+ DSA problems** on LeetCode, achieving a 1400+ rating.

Finalist at MATHack Hackathon by MATH at T-Hub, recognized in a social media contest.

May 2024

Awarded **13.9 lakhs INR grant** from the Indian government for an AI solution reducing supply chain waste in MSME Idea Hackathon2.0 2022.

Jun 2023

Recognized as **Best Performer** by AP State Council of Higher Education and CIMSME for contributions to Innovation and Entrepreneurship.

Nov 2022