Nukaraju Neradabilli

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Career Objective

As a passionate software engineer with expertise in NLP, AI, ML, I am proficient in Python. I have hands-on experience in speech processing, AI applications, and problem-solving using data structures. And explored cloud platforms. I am eager to tackle complex challenges and contribute to innovative projects.

Technical Skills

Full-Stack Development: HTML, CSS, Bootstrap, JavaScript, Flask, Web Scraping (Selenium, BeautifulSoup)
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 EC2, Azure ML Studio   **Developer Tools**:VS Code, GitHub, Git

Professional Experience

AI Intern | CognitBotz Solutions | Hyderabad   *Sep - Present*
- Developed AI/ML solution using Siamese networks, LSTM, BERT, and GPT models with technologies like OpenAI, WhisperX, Nvidia NeMo, and Pyannote for advanced emotion and voice analysis.

Projects and Research

Automated Grading System   **Source Code**
- 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.

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.

ATS Using NLP and BERT for Resume Matching   **Source Code**
- Developed an Applicant Tracking System using NLP for resume parsing and **HuggingFace-BERT** for semantic matching of resumes with job descriptions. Evaluated 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: 8.11)   *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+ contest 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*