Ria Pandey

📞 +91-62631-46230 | ✉ riapandey0805@gmail.com | 💼 LinkedIn/riapandey | 🐙 Github/riapandey05 | </> Leetcode/ria

EDUCATION

Vellore Institute of Technology (2022 – 2026)
B.Tech in Computer Science Engineering, CGPA: 9.13

Rajkumar College, Raipur (2022)
12th standard, Percentage : 95%

Rajkumar College, Raipur (2020)
10th standard, Percentage : 93%

PROJECTS

Voice-Activated Form Assistant for Banking

🐙 Github/VAFA | *Python, HuggingFace Transformers, sklearn, Regex*   Mar–May 2025

- Designed and deployed multilingual NLP pipeline for banking form automation, reducing manual data entry effort significantly. Integrated Web Speech API for real-time speech-to-text and translation (Hindi/Odia/English to English).
- Used DistilBERT to classify spoken text into entity labels (e.g., "Name", "Amount") based on context. Designed a lightweight Regex engine to accurately extract entity values (e.g., amounts, 10-digit phone numbers) from raw transcriptions, post-classification.
- Deployed end-to-end pipeline using Streamlit, enabling real-time voice interaction for 500+ test users during beta testing with a with F1-score > 0.98.

ConversoAI – Chatbot With Conversation Memory

🐙 Github/ConversoAI | *Python, LangChain, HuggingFace, Streamlit*   Oct–Nov 2025

- Built an intelligent chatbot system using LangChain that maintains long-term conversation history, enabling context aware and human-like multi-turn interactions.
- Integrated Hugging Face LLMs with ConversationBufferMemory, reducing repetitive responses by 30% and enabling dynamic, personalized dialogue handling.
- Developed a VectorStore retriever module using embeddings for storing past messages, enabling retrieval-augmented responses and improved conversational accuracy.

LSTMind – Next Word Predictor

🐙 Github/LSTMind | *Python, TensorFlow, Keras, Streamlit*   May–June 2025

- Developed an LSTM-based neural network to predict the next word in a text sequence using Shakespeare's Hamlet corpus. Performed text preprocessing: tokenization, padding, and sequence generation to prepare model-ready input.
- Designed and trained a multi-layer LSTM model with embedding and SoftMax layers; implemented early stopping to reduce overfitting.
- Built and deployed an interactive Streamlit app for real-time next-word prediction based on user input, integrating additional UI features to improve user experience and readability.

SKILLS

Languages : C++, Python | **Technical skills** : Machine Learning, Deep Learning, Natural Language Processing, Generative AI | **Libraries & Frameworks** : Numpy, Pandas, Scikit-Learn, Tenserflow, Langchain, Hugging Face.
Database : MySQL.

CERTIFICATIONS

Complete Data Science, ML, NLP, DL Bootcamp – *Udemy*
Bits and Bytes of Computer Networking – *Google*
Cloud Computing – *NPTEL*

ACHIEVEMENTS

- Bagged Silver + Elite certificate in NPTEL Cloud Computing examination conudcted by IIT Madras.
- Secured 1st position in State level and 4th position in National level in all India Spell-Quest competition.
- Completed 160 days of coding challenge on GeeksForGeeks.

EXTRA-CURRICULARS

Operations Team Member - College Music Club (2023–2024)

- Assisted in event planning and execution, fostering teamwork and logistical coordination.
- Bagged exceptional performance award at Swaranjali'22, all India IPSC music fest.
- Performed as a lead guitarist in Thomso'24 , annual cultural fest of IIT Roorkee.