Ria Pandey

Aspiring professional specializing in Machine Learning, Deep Learning, and Natural Language Processing.
Phone: +91-62631-46230 | Email : riapandey0805@gmail.com
LinkedIn : https://www.linkedin.com/in/ria-pandey-07b4a2250/ | GitHub : https://github.com/riapandey05

EDUCATION

VIT Bhopal University (2022 – 2026) **Bhopal, India**
B.Tech in Computer Science Engineering, CGPA: 9.14

Rajkumar College (2021-2022) **Raipur, CG**
12th standard, Percentage: 95%

Rajkumar College (2019-2020) **Raipur, CG**
10th standard, Percentage: 94%

PROJECTS

LoyaltyLens – Customer Churn Prediction App
(https://github.com/riapandey05/LoyaltyLens) | *Python, TensorFlow, Streamlit, scikit-learn | Jan-Mar 2025*

- Developed a Streamlit web app to predict customer churn using a trained **neural network** built with **TensorFlow/Keras**.
- Integrated real-time user input features including sliders, number fields, and dropdowns for dynamic prediction.
- Applied preprocessing: label-encoded gender, one-hot encoded geography, and scaled inputs using StandardScaler.
- Loaded trained models and preprocessing pipelines via Pickle for efficient inference without retraining.
- Deployed the app on Streamlit Cloud for public access and live interaction.

Voice-Activated Form Assistant for Secure Banking
(https://github.com/riapandey05/Form-Assistant) | *Python, HuggingFace Transformers, scikit-learn, Regex | March-May 2025*

- **Led a 8-member team** to design and deploy multilingual NLP pipeline for secure banking form automation, reducing **manual data entry by 70%.**
- 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 and semantics with F1-score > 0.98.
- 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.

Sentiment Analysis on Amazon Kindle Book Review
(https://github.com/riapandey05/NLP) | *Python, scikit-learn, NLTK, BeautifulSoup, Word2Vec | September-November 2024*

- Developed a sentiment analysis model leveraging **AvgWord2Vec** for feature extraction and **Logistic Regression** for classification, significantly improving accuracy over traditional **TF-IDF** (from 57% to 82%).
- Applied advanced text preprocessing including case normalization, stopword removal, special character filtering, URL/HTML tag stripping, and lemmatization using **WordNetLemmatizer**.
- Enhanced text cleaning and robustness by integrating **NLTK** and **BeautifulSoup**, and fine-tuned model performance through hyperparameter optimization.
- Built a modular and efficient pipeline for real-time sentiment prediction, enabling seamless integration into various applications.

SKILLS

Technical skills : Machine Learning , Deep Learning , Natural Language Processing
Programming Languages : C++, Python
Libraries and Frameworks : Scikit-learn, NumPy, Pandas, Matplotlib, Streamlit, TensorFlow
Databases : SQL, MySql
Soft Skills: Team Leadership, Cross-functional Collaboration, Agile Workflow.

LICENSES AND CERTIFICATIONS

Cloud Computing – *NPTEL*
The Bits and Bytes of Computer Networking – *Google*
Complete NLP Bootcamp – *Udemy*
Python Essentials – *Vityarthi*