

RIYA

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EDUCATION

National Institute of Technology, Tiruchirappalli <ul style="list-style-type: none">M.Sc. Computer Science, CGPA: 7.81	2023 - 2025
Patna Women's College, India <ul style="list-style-type: none">B.Sc. Statistics, CGPA: 9.89	2019 - 2022
Presidency Global School, India <ul style="list-style-type: none">CBSE (Class XII), PCM, Percentage: 83.6%	2018 - 2019
<ul style="list-style-type: none">CBSE (Class X), CGPA: 10	2016 - 2017

SKILLS

Python | SQL | Machine Learning | Deep Learning | NLP | Artificial Intelligence | Numpy | Pandas | Data Visualization | Exploratory Data Analysis | Power BI | MS Excel | Generative AI

PROJECTS

Quora Question Pair Similarity <ul style="list-style-type: none">Developed a text analytics approach aimed to predict sentence similarity by cleaning and preprocessing the textual dataset using NLP techniques.Extracted and examined both basic and advanced features, including fuzzy features, to optimize feature representation.Employed TF-IDF Vectorizer tuned Logistic Regression and XGBoost model, achieving 0.91 AUC and 83% accuracy further improved accuracy to 90% by using Word2Vec embedding and training RNNs and LSTMs network.	Oct'24
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AI Doctor 2.0 – Multimodal Medical Chatbot <ul style="list-style-type: none">Designed an AI-Powered chatbot capable of processing vision and voice inputs for healthcare queries using multimodal LLMs.Integrated key technologies, including Groq API for inference, Llama 3 Vision for image analysis, OpenAI Whisper for speech-to-text (STT), and gTTS /ElevenLabs for text-to-speech (TTS).Developed a real-time, interactive voice-based UI using Gradio, enabling seamless doctor-patient interactions while optimizing speech processing with Python, ffmpeg, and portaudio.	Sep'24
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SecureSight <ul style="list-style-type: none">Designed a robust network intrusion detection system entailing implementation of Machine Learning models, includes Decision Tree, Random Forest, Logistic Regression, Naive Bayes on NSL- KDD dataset, accuracy ranging from 75.5% to 89% and f1 score from 78% to 90%.Conducted comprehensive Exploratory Data Analysis (EDA), handled outliers, and performed feature extraction based on Pearson Correlation Coefficient. Applied OHE and normalization, resulting in a data set with optimized features.Optimized Decision Trees (accuracy improved from 84% to 86%) through hyperparameter tuning and utilized ensemble learning techniques like Random Forest to enhance robustness, mitigate overfitting, and improve generalization.	Jul'24
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ACADEMICS AND EXTRACURRICULAR ACHIEVEMENTS

- Secured **Rank 1** in Department for the batch 2022, Patna Women's College.
- Secured **Rank 2** under UGC scheme of 'Basic Scientific Research' for undergraduate's students.
- A volunteer under the **Being Helper Foundation**, 60 days of internship, which aims at providing Social Activities towards education and skills development of deprived kids/women of slums areas.

POSITIONS OF RESPONSIBILITY

Nit Trichy Head, Executive Team Optima <ul style="list-style-type: none">Directed the planning and execution of "Optima," leading a team of 15 to ensure alignment with event objectives and achieved a 25% increase in attendance through effective stakeholder collaboration and timely delivery.	Mar'24
Patna Women's College Coordinator, Vigyan Utsav <ul style="list-style-type: none">Managed logistics, marketing, and scheduling for Vigyan Utsav, attracting over 500 participants and boosted participation by 30% through strategic marketing and ensured smooth execution via effective communication.	Mar'21