

ARYA CHAKRABORTY

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CAREER SUMMARY

Led multiple teams in diverse data science projects, ensuring seamless coordination with clients and partners for successful database automation.

EDUCATION

Vellore Institute of Technology MSc Data Science <ul style="list-style-type: none">CGPA: 8.81Subjects: Python, Data structures, Machine learning, deep learning, Information retrieval techniques.	Expected: April 2024
Kalyani Mahavidyalaya BSc. Statistics <ul style="list-style-type: none">CGPA: 8.26Subjects: Hypothesis testing, Probability theory, Time series analysis, Regression analysis.	June 2022

EXPERIENCE

AI Developer Isnartech PVT. Ltd <ul style="list-style-type: none">I fine-tuned Gemma 2B & DeepSeek Coder 1.3B models on 3000 rows of structured data, achieving SACRE BLEU scores of 70.38 and 70.35 respectively, for converting natural language to SQL queries.Developed a Flask app for real-time air quality index prediction, integrating advanced ML models (Linear Regressor, Random Forest Regressor, Artificial Neural Network), each achieving over 85% accuracy, by fetching live air pollutants data.	January 2024 - Present Remote
Data Science Intern Exposys Data Labs <ul style="list-style-type: none">I analyzed diabetes prediction using 9 ML methods, proposing a superior deep learning model and introduced a personalized health tracking web app, outperforming existing models by 10%.Proposed model outperformed existing models by attaining a 10% higher accuracy in diabetes prediction.	August 2023 – September 2023 Remote

SKILLS

- Statistical analysis, Time Series analysis, Probability.
- Python, R, SQL, Power Bi, Excel.
- Transformers, Streamlit.
- Version control systems, GitHub, AWS Sagemaker.
- Natural Language Processing (NLP), Computer Vision, Large Language Models, Generative AI (Gen AI).
- Machine Learning, Deep Learning, Artificial Neural Network, Recurrent Neural Network, Convolutional Neural Network.

UNIVERSITY PROJECTS

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| 1. NLP-Powered Automatic Document Summarization: A Fine-Tuned Approach <ul style="list-style-type: none">Created an Automatic Document Summarization Model using NLP techniques, secured a remarkable 10.71% improvement in accuracy (ROUGE score of 0.31) over pre-trained models.Implemented user-friendly features, allowing customization of summary lengths, model selection, and support for over 150 languages, ensuring a diverse and efficient user experience.Integrated 4 state of the art LLM models, including a fine-tuned BART model (Facebook/bart-large-cnn), keyword generation using KeyBERT, language translation with Hugging Face Transformers, and LoRA-PEFT for long text summaries. | November 2023 |
| 2. Gender Classification using CNN & OpenCV <ul style="list-style-type: none">Constructed gender classification system securing 89% accuracy using custom CNN models on 17,000+ images.Enforced transfer learning and fine-tuning techniques, achieving a 90% test accuracy on selected model.Designed and trained 5 models for gender classification, including 3 CNNs built from scratch and 2 utilizing transfer learning. | July 2023 – September 2023 |
| 3. Career Buddy - Career Guidance AI Chatbot <ul style="list-style-type: none">Web scrapped the dataset from Quora using Beautiful Soup which was more than 5 GB of size.Used Convolutional Neural Network based deep learning model which gave 30% better accuracy then other existing ones.Orchestrated end-to-end pipeline, deploying innovative resource with precision, showcasing AI expertise and user-friendly design. | February 2023 – July 2023 |
| 4. Web Application for Stock Price Analysis & Prediction <ul style="list-style-type: none">Engineered an LSTM Neural Network model for accurate stock price forecasting which was tested on more than 10 datasets and got better accuracy then the existing models.Conducted over 6 comprehensive statistical and technical analyses to gain insights into the company's performance.Transformed complex market patterns into useful insights, demonstrating expertise in machine learning and financial analytics. | October 2022 – January 2023 |

CERTIFICATES

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| Data Science Foundations (Great Learning)
Credential URL | May 2023 |
| Data analytics and visualization virtual experience (Forage)
Credential URL | March 2023 |
| Machine learning using Python (Internshala)
Credential URL
Credential ID: 68621F92-B5A2-68D6-5BE8-B74CC8C83F08 | August 2022 |