

ARYA CHAKRABORTY

Chinsurah, WB-712101 | +916290686301 |
aryachakraborty.official@gmail.com | GitHub | LinkedIn | Portfolio

CAREER SUMMARY

Recent data science graduate, with motivation to put my practical skills to solve given tasks to use, contribute by providing perceptive data analysis, and support the development of organizations.

EDUCATION

Vellore Institute of Technology MSc Data Science - <ul style="list-style-type: none">CGPA: 8.78Subjects: 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

Data Science Intern Company: Exposys Data Labs <ul style="list-style-type: none">Analyzed diabetes prediction using 9 Machine Learning methods and proposed a deep learning model.Created a web app for personalized health tracking and real-time risk assessment.Proposed model outperformed existing models by attaining a 10% higher accuracy in diabetes prediction.Constructed projects in a well-documented manner, ensuring clarity and ease of understanding for future reference and collaboration.	Aug. 2023 – Sep. 2023
--	------------------------------

SKILLS

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

UNIVERSITY PROJECTS

- | | |
|---|------------------------------|
| 1. NLP-Powered Automatic Document Summarization: A Fine-Tuned Approach <ul style="list-style-type: none">Engineered 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. | Nov. 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. | Jul. 2023 – Sep. 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. | Feb. 2023 – Jul. 2023 |
| 4. Movie Recommender System <ul style="list-style-type: none">Leveraged advanced similarity scoring techniques to analyze a comprehensive TMDB dataset containing more than 50,000 movie descriptions.Managed end-to-end process, from data refinement to polished Streamlit app deployment, showcasing expertise in algorithms, preprocessing, using APIs and user-centric design. | Feb. 2023 – Jul. 2023 |
| 5. 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. | Oct. 2022 – Jan. 2023 |

CERTIFICATES

- | | |
|---|--|
| <ul style="list-style-type: none">Data Science Foundations (Great Learning)
Credential URLData analytics and visualization virtual experience (Forage)
Credential URLMachine learning using Python (Internshala)
Credential URL | May. 2023
Mar. 2023
Aug. 2022 |
| Credential ID: 68621F92-B5A2-68D6-5BE8-B74CC8C83F08 | |