

# Rajarshi Chatterjee

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### EDUCATION

Degree/Certificate	Institute/Board	Year
M.Eng. (CS)	BITS Pilani, Goa	2021-Present
B.Tech. (CSE)	SRMIST, Kattankulathur	2017-2021
Senior Secondary	WBHSCE Board	2016
Secondary	ICSE Board	2014

### EXPERIENCE

• Writingo

AI Intern

March, 2023 - Present
India-Remote

- Working on prompt engineering for automated content generation for several usecases using LLMs like GPT-3/GPT-3.5/GPT-4, LLaMA, Claude, and image generation using DALLE-2, Stable Diffusion.
- Worked alongside the front-end and back-end engineers to integrate Generative AI features in the website from AWS lambda.

• Techolution Jan. 2023 - Feb. 2023

AI Intern India-Remote

- Contributed to model building and model testing phase for the project involving ASR and speech data processing.
- Worked on improvement of performance of ASR models and model fine-tuning hosted on GCP.

• BITS Pilani, Pilani

Jun. 2022 - Jul. 2022

Pilani, Rajasthan, India

- $Summer\ Research\ Intern$
- Contributed to data collection for low-resource Indian tribal languages.
- Contributed to development of custom data augmentation for low-resource Indian tribal languages
- Contributed to data collection, annotation, of parallel corpora for NMT between English and low-resource Indian tribal languages

• ZeonAI Labs May 2022 - Jun 2022

- Worked on Document-Level Semantic Search.

DS Intern
India-Remote

- Worked on Document-Level benfantic beards.
- Performed experiments on elasticsearch with milvus and faiss to test their performance with embeddings.
- Performed experiments on BERT and LinkBERT to test performance on custom QA tasks.

## Projects

• Car Price Prediction Dec. 2021

Developed a simple Flask web app which predicts the after-market price of a car with 88 % accuracy

- **Data used**: scraped from cardekho.com
- **Model used**: RandomForrestRegressor
- Tools & technologies used: BeautifulSoup, Python, Pandas, Scikit-learn, Flask

# • Wheat-head detection, on Kaggle

Jan. 2022

Developed yolov5 model with yolov5s architecture on pre-annotated images that detects wheat heads

• AI Presentation maker

Feb. 2023

Developed using GPT-3 and Stable diffusion for automated custom slides generation

## KEY COURSES TAKEN

• Data Structures, Algorithms, DBMS, Operating System, Computer Networks, Pattern Recognition, Natural Language Processing, Deep Learning, Artificial Intelligence

# TECHNICAL SKILLS

- **Programming:** C/C++, Python, SQL
- Tools & OS: Git, Jupyter Notebook, Google Colab, PyCharm, VSCode, Linux, Windows
- Libraries/Frameworks: Pandas, Numpy, Scikit-learn, PyTorch, NLTK, spaCy, Hugginface
- Web Skills & DB: HTML/CSS, Flask, FastAPI, PostgresSQL, MySQL, MongoDB

#### Positions of Responsibility

• Teaching Assistant, Fundamentals of Data Science, BITS Goa

January 2022 - May 2022

• Research Practice, Biologically-Inspired Neural Nets, BITS Goa

September 2021 - December 2021

## ACHIEVEMENTS

- Secured AWS AI & ML Scholarship

2022

# CERTIFICATIONS

- NPTEL Certification on Data Analysis with Python, IIT Roorkee
- Deep Learning Specialisation, DeepLearning.ai
- Natural Language Processing Specialisation, DeepLearning.ai