

BIDIT SADHUKHAN

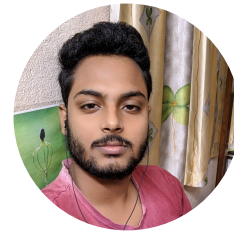
Pursuing MSc. Big Data Analytics, Intern at EY India

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ONGOING PROJECTS

Automatic Speech Recognition In SANSKRIT, under the supervision of Swami Punyeshwarananda Maharaj, RKMVERI

NLP,ASR,Pytorch

📅 March 2024 - July 2024

- Building a Sanskrit Speech Recognition model from scratch using a pytorch transformer module.
- Trained a completely new Sanskrit Tokenizer using Huggingface and also Youtokentome and used the best one.
- Training the fully built model on the Vaksancayah Dataset.

COMPLETED PROJECTS

Fine tuning Open Ai's Whisper for Sanskrit Speech to Text, under the supervision of Swami Punyeshwarananda Maharaj, RKMVERI [🔗](#) [Demo🔗](#)

Deep Learning, Huggingface,Python

📅 August 2023 - Dec 2023

- Fine-tuned the Open AI's Whisper small model using the Huggingface transformer on 78 hours of Sanskrit speech corpus.
- Achieved a best Word Error Rate of 24 on the validation set and 15 on the test set for the best model

QUANTIFYING MYSELF, under the supervision of Dr Sudipta Das, RKMVERI. [🔗](#)

Exploratory Data Analysis, Statistics,R

📅 October 2022 - January 2023

- Collected data about different habits, health and study of mine from September to January 2021, to know myself and obtain valuable insights about my habits and productivity.

Empowering Health and Safety in Mining[🔗](#)

Machine Learning,Case Study Competition,Python

📅 June 2023

- Participated in the Trilytics Case Study Competition with 2 other members, did the EDA and the PPT presentation
- Fitted a Random Forest Model and got an accuracy of 95% in classifying the type of accident in mining.

Applications of Principal Component Analysis, under the guidance of Prof. Durba Bhattacharya, St. Xavier's College Kolkata. [🔗](#)

Statistics,R

📅 December 2020 - June 2021

- Did this work as a dissertation for the final year of hons, PCA: Dimensionality reduction technique for data visualization, feature selection, noise reduction, compression, outlier detection, and data preprocessing.

EDUCATION

M.Sc. in Big Data Analytics

RKMVERI

📅 Sept 2022 - July 2024

CGPA: 7.5(3rd sem)

B.Sc.(Hons.) in Statistics

St. Xavier's College, Kolkata

📅 Jul 2018 - July 2021

CGPA: 6.75

TOOLS

Python

R

Huggingface

Tensorflow

Github

Excel

Pytorch

LaTeX

Gradio

OTHER PROJECTS

Telecom customer,Churn Data, EDA

INTERESTS

- Reinforcement Learning, ML, DL
- Statistics
- Automatic Speech Recognition
- Personality Development
- Content Writing

RESPONSIBILITY

- **TREASURER**- Perceptron, 2022-2024 Inaugural Technical fest of RKMVERI, West Bengal.
- **ORGANISING COMMITTEE MEMBER** at Epsilon Delta - Annual fest of Statistics Dept., SXC Kolkata
- **MEMBER OF THE NATIONAL SOCIAL SERVICE SCHEME**, India , 2018-2021

ACHIEVEMENTS

- **Best Content** writer in English Literary Society, 2018,
- **Inspire Scholarship** in 2018
- **Sudeshna Pal Memorial Award of SAVM** 2015
- **Best presenter award** Science Exhibition in 2015.