

Soumitra Das

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EDUCATION

Institute	Degree	Year	GPA/Marks(%)
Indian Institute of Technology Madras	M.Tech Data Science and AI	2024-2026	-
Indian Institute of Technology Delhi	M.Sc Mathematics	2020 - 2022	6.88/10
Ramakrishna Mission Vidyamandira	B.Sc(Hons.) Mathematics	2017 - 2020	7.75/10
WBCHSE	Higher Secondary	2017	85.2 %
WBBSE	Secondary	2015	84.14 %

RELEVANT COURSES

- [Sequence Models](#) [by deeplearning.ai]
- [Convolutional Neural Network](#) [by deeplearning.ai]
- [Getting Started with AWS Machine Learning](#) [by AWS]
- [Pandas](#) [by Kaggle]
- [Introduction to Machine Learning](#)[by Kaggle]
- [intermediate machine learning](#)[by Kaggle]
- [HuggingFace NLP Course](#) [by Huggingface]
- Build Basic Generative Adversarial Networks (GANs)(ongoing) [by deeplearning.ai]
- Data Structures and Algorithms, Mathematical programming, Numerical Analysis, Linear algebras, Data Mining, Cryptography, Graph Theory

TECHNICAL SKILLS

- **NLP:** transformers, Language Models(Bert, GPT), MinGPT Name Entity Recognition, Machine Translation, Question Answering
- **Computer Vision:** Object Detection [with YOLO],semantic segmentation [with UNet], Face recognition, Neural Style Transfer
- Deep Learning, Machine Learning, Basic GANs
- **Machine Learning Tools/Libraries:** Pytorch, transformers, datasets, tokenizers, scikit-learn, OpenCV, Keras, tensorflow
- **Programming Languages:** Python C++, C ,JavaScript, MySQL, R, Octave
- Others: Git,Github,Basic Web development, linux (debian based)

MSC THESIS

- **Image Encryption using two square cipher associated with Arnold map** [Supervisor - Prof. Rajendra Kumar Sharma](Deployed a python project for image encryption based on [this](#) paper.)

PROJECTS

- **Minbert for multitasking** : i. Here I created a Minimum representation of Bert and finetuned it for sentiment classification on SST and CFIMDB dataset. ii. In the second part I extend and finetuned the pretrained Bert multiple downstream task(Sentiment Analysis, Paraphrase Detection and Semantic Textual Similarity) on SST, Quora dataset and SemEval STS Benchmark dataset respectively.
- **Neural Machine Translation (Chinese to English) with attention RNN:** Implemented some of the major portion of the transformer architecture and used those model for machine translation.
- **Chegg Expert Extension:** Designed a chrome extension for easy navigation and notification for subject matter experts of the educational platform Chegg.