

SRIDIPTA MANNA Experience

Model Validator



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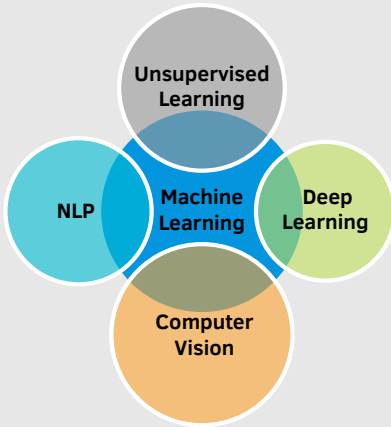


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Technical Skills



Programming

- Python (4/5), • R (4/5), • SQL (3/5)

Education

MS., Quality Management Science(ISI) (Percentage: 81)

Subjects: Statistics, NLP, Neural Network, Machine Learning, Image processing, Time Series, Six Sigma, Statistical Process Control, Multivariate Analysis
Indian Statistical Institute
2018 - 2020 | Bangalore, India

BSc., Mathematics (Percentage: 57.8)

Lady Brabourne College
University of Calcutta 20015 - 2018 | Kolkata, India

Online Courses

- **MIT- 6.S191** Introduction to Deep Learning
- **MIT- 18.S096** Topics in Mathematics with Applications in Finance
- **7 Short Course from DeepLearning.AI** on the topics: GenAI Prompt engineering, Langchain, advanced RAG and Diffusion Models

May 22 - Present

Citibank

Model Validator (C10,C11)

- **BAU Projects:** Primarily focused on validating Unsupervised and GenAI models based on Citi guidelines, policies, procedures. Validated Machine learning models for Chatbot, Document Auto-completion, Summarization, Graphs/insights creation, feature importance detection etc. Validated supervised models, including logistic regression, XG-Boost, and random forest, for customer complaint identification. My experience also extends to credit risk models.
- **Research Projects:** Analyzed the topic "Drift Detection on text datasets" and devised three distinct, effective techniques and integrated into Citi's validation standards for all NLP models. Additionally, conducted research on prevailing machine learning methodologies concerning language models, information retrieval, text summarization, and face recognition. Explored Generative AI techniques, prompting and decoding strategies for text generation, summarization, Retrieval Augmented Generation (RAG), LangChain, and Text-to-Image generation. Presented findings on internal platforms and authored corresponding guidelines.

Aug 20 - May 22

Schneider Electric

Artificial Intelligence Engineer

- Focused on developing machine learning models, production deployment, testing. I have built Text classification(Multilingual) models using Bert, ULMFit, XLM, naive Bayes, SVM, Random forest, Xgboost on AWS platform. Also, helped pioneer automated deployments of data pipelines using lambda function and State Machine, enabling faster and more portable deployments. Tools:Jupyter Lab, AWS SageMaker, AWS Lambda, AWS State Machine

Feb 20 - July 20

Schneider Electric

Machine Learning Intern

- **Project:** A recommender system to increase the clickthrough rate, better product suggestion and improvised customer-product interactions using Matrix Factorization, Association rule and Restricted Boltzmann Methods. Tools: Python, Pandas, Numpy, Sklearn, matplotlib, AWS Services

Nov 19 - Jan 20

Indian Statistical Institute

Dissertation

- A survey report comparing five clustering techniques in 3 hyperspectral image data sets(Salinas A, Salinas and Indian pines). The considered clustering techniques were K-means, K-medoids, hierarchical, spectral clustering and DBSCAN .
- **Tools:** Python, Numpy , Matplotlib, Scipy , Sklearn

May 19 - July 19

6th Energy Technologies Pvt Ltd

Machine Learning Intern

- **Projects:** Detection of missing/reversed components and other defects in a new PCB image using various algorithms such as image feature extraction, homography, image subtraction, morphological transformations, contours and bounding rectangles.
- **Tools :** Python , OpenCV , ipywidgets , Numpy

Achievement

- Promoted to C11 (Senior Associate) from C10 within 1 year and 10 months.
- Published and presented my research topic "Drift Detection on text dataset" in a broad platform inside Citi.
- Inspire scholarship offered by DST, given to the top 1 percent student in 12 standard Examination , 2015