KANAN PANDIT

M.Sc in Big Data Analytics — B.Sc in Mathematics

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Introduction

I am currently pursuing my M.Sc. in Big Data Analytics at Ramakrishna Mission Vivekananda Educational and Research Institute (RKMVERI). I hold a Bachelor's degree in Mathematics from Vidyasagar University, which has provided me with a strong analytical foundation and problem-solving skills. With expertise in machine learning, deep learning, statistics, data structures, and computer vision, I am passionate about leveraging data to tackle real-world challenges and build impactful solutions. I am actively seeking internship opportunities to gain hands-on experience and contribute to innovative projects in data science, AI, and big data analytics.

Education

M.Sc in Big Data Analytics
RKMVERI, Howrah 2024 – Present (CGPA: 7.26)
B.Ed With Pedagogy of Mathematics
WBUTTEPA,Kolkata 2020-2022 (CGPA: 9.75)
B.Sc in Mathematics
Vidyasagar University, Medinipur 2017 – 2020 (CGPA: 6.85)
Higher Secondary (10+2)
Golar Sushila Vidyapith High School, Golar 2015 – 2017 (78.20%)
Secondary (10)
Golar Sushila Vidyapith High School, Golar 2015 (68.42%)

Technical Skills

Programming: Python, C, R
Tools: MySQL, Hadoop, Spark,Microsoft Excel,Power BI
Libraries: NumPy,Pandas,Matplotlib,Scikit-learn, PyTorch, Hugging Face, CUDA

Coursework

Mathematics and Statistics: Probability, Stochastic Processes,Basic Statiscis,Advanced Statiscal Methods,Time Series and Survival Analysis
Machine Learning: Supervised, Unsupervised Learning, Optimization
Deep Learning: CNN, RNN, NLP, Transformers
Computer Vision
Big Data: Distributed Computing (Hadoop, Spark)
Others: Data Structures and Agorithm, NPTEL Joy Of Computing Using Python

Experience

Freshers

Academic Projects

- **Custom Adversarial Attacks on BERT: Evaluating and Enhancing Sentiment Analysis Models (Ongoing)**
  NLP — Adversarial ML — Transformers **Feb 2025 - Present**
  Developing and evaluating adversarial attacks (FGSM, PGD, TextFooler, BERT-Attack) on BERT-based sentiment classifiers, implementing robust defense mechanisms.

- **Distributed Machine Learning with H2O (Ongoing)**
  H2O.ai — Big Data **Feb 2025 - Present**
  Setting up a H2O cluster for large-scale machine learning, experimenting with distributed models.

- **Lively Lines– Sketch-to-Image Generation (Ongoing)**
  Computer Vision and Deep Learning **Feb 2025 - Present**
  This project aims to create a robust Sketch-to-Image Generation system using deep learning techniques, ultimately enabling users to bring their hand-drawn sketches to life.

- **A Comparative Study of Machine Learning Classification Models on the EMNIST Dataset (Completed)**
  ML — Classification — Feature Engineering **2024**
  Evaluated various machine learning classification models, including SVM and Random Forest, on the EMNIST dataset.

Responsibilities

Coding and Hackathon Team Member for Perceptron'25, RKMVERI

Areas of Interest

Deep Learning, Machine Learning, Computer Vision, Optimization Techniques, Distributed Systems

Additional Skills

Languages: English, Bengali, Hindi
Hobbies: Playing Cricket, Listening Music