

PRIYANSHU RAJPUT

rajputmanu024@gmail.com | 07607013603 | Kannauj

[Linkedin](#) | [GitHub](#)

EDUCATION

IITM

B.S. in Data Science and Application

CGPA: 7.1

Chennai

Jan 2021 - Dec 2024

CSJMU

Mathematics B.Sc.

Percentage: 61%

Kanpur

July 2019 - July 2022

EXPERIENCE

Itech India | ML Engineer Trainee

Chennai, India | Dec 2023 - Present

- Spearheaded the development of table detection, text detection, and text recognition techniques for CAD documents.
- Managed and processed a large dataset of CAD documents in PostgreSQL, including batch processing and long-term maintenance.
- Fine tuning custom LLM model based on business requirements .
- Enhance the performance of the code by implementing optimizations using CUDA and C++ within the pipeline.
- Working on statistical techniques, including regression analysis, hypothesis testing, and model validation.
- Using technique like hypothesis testing, Bayesian inference, A/B testing, confusion Matix and other statistical methodologies.
- Highly optimized DWG conversion as PDF and PNG formats.

Itech india | ML Intern

Chennai, India | June 2023 - Nov 2023

- Identified key regions of interest within each file and consolidated findings for actionable insights.
- Contributed to the optimization of data analysis procedures, resulting in enhanced efficiency.

SKILLS

Programming Languages: Data Extraction, Pytorch, Machine Learning, Deep Learning, LLM, NLP, Scikit-Learn, Model Evaluation, Model Deployment, Aws, python

Libraries/Frameworks: Javascript, React, Flask, Pytorch, Onnx, VueJS, sklearn, xgboost

Tools / Platforms: Cloud Formation, SageMaker, Datadog, Redshift, Git, Docker

Databases: SQL, AWS S3

PROJECTS / OPEN-SOURCE

Hand written text detection

PyTorch, Transformers, AWS Textract, Deep Learning, CUDA

Developed a robust hand-written text detection system using **PyTorch** and Transformer models, optimized with **CUDA** for enhanced performance and accuracy. The solution, deployed as an API with **FastAPI**, supports easy integration and scalability. Trained to recognize diverse handwriting styles, the model achieves high precision in real-world scenarios, showcasing expertise in computer vision and deep learning.

AI ChatBot

RAG, NLP, LLM, NLTK, BERT

AI chatbots leverage **RAG** (Retrieval-Augmented Generation) to enhance response accuracy by integrating external data sources. **NLP** techniques, supported by libraries like **NLTK**, enable efficient text processing and understanding. Models like **BERT** provide deep contextual comprehension, allowing chatbots to interpret complex queries and engage in meaningful conversations.