

# MD TAUSIF

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Data-driven software professional with around 3 years of experience in Data Science and Risk modeling within the Insurance Technology sector. Proficient in Machine Learning, NLP, Data Pipeline, Data Analysis, and automation, with a strong ability to integrate diverse data sources for enhanced risk assessments. An effective collaborator with a strong ability to convey complex ideas, committed to creating innovative data-driven solutions

## WORK EXPERIENCE

### reThought Insurance (Formerly Cyber Boxer)| Software Developer (AI/ML) Apr 2024-present

- Implemented ML models utilizing AWS Sagemaker and NLP tasks in insurance, focusing on location geography, address association, and risk assessment for habitable geographies in a specific country.
- Executed thorough benchmarking to address performance bottlenecks, like I/O operations and CPU-intensive tasks, resulting in a 4x performance increase.
- Performed advanced web scraping and analyzed gigabytes of raster and LiDAR data using various algorithms, reducing the dataset to terabytes and achieving an 80% memory usage reduction.
- Developed a real-time weather data analysis precipitation alert system for insured assets that Improved risk management by providing timely and accurate precipitation alerts on Slack channel, eventually reducing potential losses and damages by enabling proactive measures based on weather forecasts.

### Cyber Boxer AI | Jr. Data Scientist - Mid Level Data Scientist Feb 2022 - Mar 2024

- Led spatial analysis and data visualization minimizing underwriting costs by 80%, identifying flood risk patterns for informed decision-making.
- Utilized GIS tools and libraries like QGIS, Geopandas, Shapely, Rasterio, Richdem, and Laspy to process more than 1 million large geospatial datasets, ensuring comprehensive flood risk analysis.
- Engineered and maintained over 10 terabytes of robust data pipelines for seamless cleaning, transforming, and processing large datasets.
- Integrated advanced ML algorithms resulted in a 95% improvement in accuracy for flood risk predictions, enhancing the decision support system.
- Conveyed complex technical concepts to non-technical audiences, facilitating understanding and ensuring the success of flood risk analysis solutions.

## PROJECTS & FREELANCING

### AI-Powered Voice Assistant and Intelligent Helper July2024-Present

This innovative application leverages LLMs and advanced NLP to power a voice assistant, offer text/code assistance, and enable document-based Q&A via the RAG algorithm. [Application demo video](#)

### DocPro Web App | Tech Stack | Python, Django, MySQL, and NLP Jan - July 2024

**Overview:** Document update, rotate, and analyze text using NLP, offering effective document management.

- **Data Lake using AWS (Freelancing) | Tech Stack | AWS EC2, AWS S3, AWS Kinesis, AWS Lambda, AWS Glue, IAM, MySQL etc. Overview:** Created a data lake that helped reduce cost by 30% of expenditure. **Mar-June 2021**

## SKILLS

- **Programming Languages:** Python, C++, Bash
- **Frameworks/Library:** Django, Flask, Scikit-Learn, Geopandas, Pandas, Laspy, Shapely, CuDA, Numba, JIT BeautifulSoup, Scipy, Numpy, Seaborn, Matplotlib, TensorFlow, Keras, Google GenAI, Cron, LLM, Langchain
- **Databases and Cloud Services:** MongoDB, MySQL, PostgreSQL, AWS EC2, AWS S3, AWS Sagemaker, AWS Bedrock, AWS Lambda, Wasabi Cloud based on AWS, GCP
- **Industry Tools:** VS Code, Postman, Jupyter Notebook, Anaconda, Git, Github, Jira, MongoDB Compass, Docker, Slack, Slack API Integration, Apache Airflow, DAG
- **Others:** Data Structure & Algorithms, Object Oriented Programming, Unix OS, Twilio, Weather API

## EDUCATION

### Master of Computer Application

Aug 2018 - Sep 2021

Aliah University | Specialization in Machine Learning

### Bachelor of Science(Honours)

Jul 2013 - Jul 2017

Dr. Bhimrao Ambedkar University | Specialization in Mathematics

## CERTIFICATIONS

- Advanced Python for Data Science | Python for specialization in SQL
- Machine Learning Specialization using Amazon Web Services