Cover Letter - Aritra Mazumdar

**Reference - Data Analyst**

Hello Team,

I am very excited to know about the Data Analyst position at your company.

* On my professional career at Tata Consultancy Services Limited as a **Data Analyst**, I used R and SQL extensively for data modelling and PowerBI and Excel for reporting.
* In my M.Sc. in TUHH, I took a course on **Data Compression** and completed a few certifications and open-source projects in **Data Science**, which cover areas like **Time Series Data, Trend Prediction** and **Natural Language Processing** (Sentiment Analysis and User Profiling). Additionally, I completed academic projects on **telecommunication networks** and **spectrum availability data** analysis.
* As an IT Working Student in Hoppe Marine GmbH, my tasks included implementation of protocols to read raw UDP sensor data by means of socket coding using Python, data visualization with Matplotlib/Plotly, dashboard reporting with R, implementation of SQL scripts for data extraction, cleansing and pre-processing and finally **anomaly detection using Machine Learning** for predictive maintenance in roll damping tanks of ships. The algorithm would send an alert in case the water level elevation in the tank would cross a secure threshold.
* I completed my thesis in **Reconstruction of 3D CT Volume from 2D X-ray Image using Deep Learning with 2D U-Net**. My tasks included raw data acquisition, dataset pre-processing, data labelling, data augmentation and also training of the UNet to generate CT scan as output, when X-ray is fed as input.
* Currently I am working on a project **Cyber-threat Analysis and Prevention using Artifical Intelligence. It involves analysis of D-o-S attacks dataset on IT security and developing AI countermeasures.**
* The role of Data Analyst at your company falls in line with my pursued and current area of interest. I want to use this opportunity to contribute to the whole workflow - mapping of business requirements to technical objectives, developing data-driven solutions for improved efficiency, consolidation, pre-processing, modelling and analysis of datasets for insight in order to make data-driven predictions and recommendations, while keeping in mind functional reasonability and financial feasibility and finally achieve deliverables within deadlines. Additionally, I would like to develop ML algorithms, if there is a scope, for better predictive analysis. Given my experience in Data Science/ML and the skillsets required for this position, I feel that my profile is tailor-made for this position.
* I am an excellent team player and have also led teams at different occasions. I am self-motivated and interested to learn new things and inclined towards projects which need more innovation. Given an opportunity, I will best make use of my knowledge, experience and skill sets to add value to this project.

Thank you in advance for your time and consideration.

Sincerely,

Aritra Mazumdar,

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