Job Description and Responsibilities of Data Analytics Resource

Name of the Post: Data Analyst

Proposed Engagement of the Data Analyst:

CPR had earlier contributed to capacity building in data analytics and supporting The Andhra Pradesh Eastern Power Distribution Co. Ltd. (APEPDCL's) decision making for improving revenues, budget prioritization coverage efficiency, etc.

APEPDCL would now like to further strengthen its in-house capacity, with support from CPR. This objective is proposed to be met by employing an in-house data analyst (DA) for APEPDCL at Vishakhapatnam. CPR will assist in recruiting and training the resource. The DA will be employed by APEPDCL for a year initially, which may be extended. **The analyst will be located at the APEPDCL office at Vishakhapatnam.**

The DA will be managed by a Senior Fellow at CPR and a senior manager at APEPDCL. Since the resource will be embedded in APEPDCL, they may have to respond to APEPDCL requests in real time. The DA will be supported as necessary by the CPR team in Delhi. In addition to the Senior Fellow, other specialised resources, e.g., spatial data analysis, advanced statistical analysis, etc. will be made available as needed for research on issues pertaining to electricity distribution in AP, focusing on areas served by APEPDCL. The agenda for the research will be set by the APEPDCL led by a senior manager.

Essential Skillsets

1. Ability to extract data from a database server and basic knowledge of SQL queries.

2. Statistical Modelling: Deep understanding of statistical theories, probability and proficiency in applying these concepts to real-world data analysis.

3. Proficiency in complex analytical techniques such as clustering, regression analysis, predictive modelling, and time-series analysis, as well as the ability to apply these techniques to solve business problems and provide actionable insights.

4. Data Visualization: Proficiency with visualisation tools like Power BI and Tableau and familiarity with libraries such as Matplotlib, Seaborn (Python), or ggplot2 (R).

5. Ability to work effectively in cross-functional teams and understand and address the data needs of different departments.

6. Strong critical thinking skills to approach problems logically and analytically and the ability to devise data-driven solutions to complex business challenges. Ability to document the methodology for replication is essential.

Desirable Skillsets

1. Ability to handle big data using machine learning techniques—like decision tree modelling, neural networks or complex statistical exercises like LASSO.

2. Spatial Data analysis: Cartographic skills using QGIS or R. Analytical ability to work with remotely sensed data to triangulate with APEPDCL databases. Good knowledge about openly sourced spatial and statistical data is desirable.

3. Excellent communication skills, capable of effectively conveying information to both technical and non-technical stakeholders.

How to Apply

Interested candidates should send their CV to Saugata Bhattacharya at
saugata@cprindia.org.

Applications will be reviewed on a rolling basis, so early submission is strongly encouraged.