

Project/Role Description Template

Hiring Manager: Sunil Kumar
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Mentor: Siddharth Modi

Project/Role: ML modelling & Analytics for Ent Data –
Project Engineering

Project/Role Description: Implement automation for incident remediation to predict failure instances for a given day, providing valuable insights into potential issues.& provide the data for pro-active actions.

Key Stakeholders:
Sunil Kumar [Manager - DRE]
Madhu [Sales BI Delivery]

Competencies/Skills developed/Technical Training: Results driven, Leveraging Python for data manipulations and ML modelling, Executive presence.

Deliverables:

- Implemented automation for incident remediation using Machine Learning. Developed a model that predicts failure dates for an instance and failure instances for every next day.
- Acquired data from diverse sources and constructed ML models, facilitating pattern identification and meaningful insights, and identified the best model (Xgboost) to maximize the accuracy of 87% of failure prediction output.
- Integrated with a scheduler tool that runs the code at 5 am daily to know the failures beforehand.
- Predicted data that went conjointly with various automations resolving failures even before their occurrence in an NRT basis.
- Documented the entire process to facilitate understanding for others.
- Performed trend analysis & provided meaningful insights to optimize the delivery time of critical reports.
- Leveraged ML modeling to predict potential future failures, reducing anomalies through proactive measures.

Key Metrics:

Automation Excellence, Achieving 87% Accuracy, Comprehensive Data Insights, Proactive Scheduling for Early Identification, Real-time Issue Resolution, Knowledge Transfer, Optimized Operations, Proactive Anomaly Reduction through ML Modeling.

