

Log File Analyzer

Additive Manufacturing
Supervisor: **Mr. Lionel ARNAUD**

About Me

 **Zain Ramzan**

March 25, 2000

Pakistan 

Objective

To contribute to a dynamic team where I can apply and enhance my skills in machine learning, deep learning, and computer vision, driving innovative solutions in technology and industry.



Outreach and Services

- **Moderator & Trainer (2023-Current)**
iCodeGuru
- **Web Developer (2021-22)**
AWS Community, Lahore Pakistan
- **Graphic Designer Head (2019-2022)**
Positive Pakistan Foundation, MUST Chapter



EDUCATION

- **M2 Industry 4.0 (2024-25)**
University Of Technology Tarbes Occitanie Pyrenees (UTTOP), Tarbes
- **B.sc in Electrical Engineering (2018-22)**
Mirpur University of Science and Technology (MUST), Mirpur Pakistan



Scientific SKILLS

- Machine learning & Deep learning
- Computer Vision
- Research & Problem-Solving
- Data Analysis & Visualization
- Business Intelligence
- Programming and Development



HOBBIES

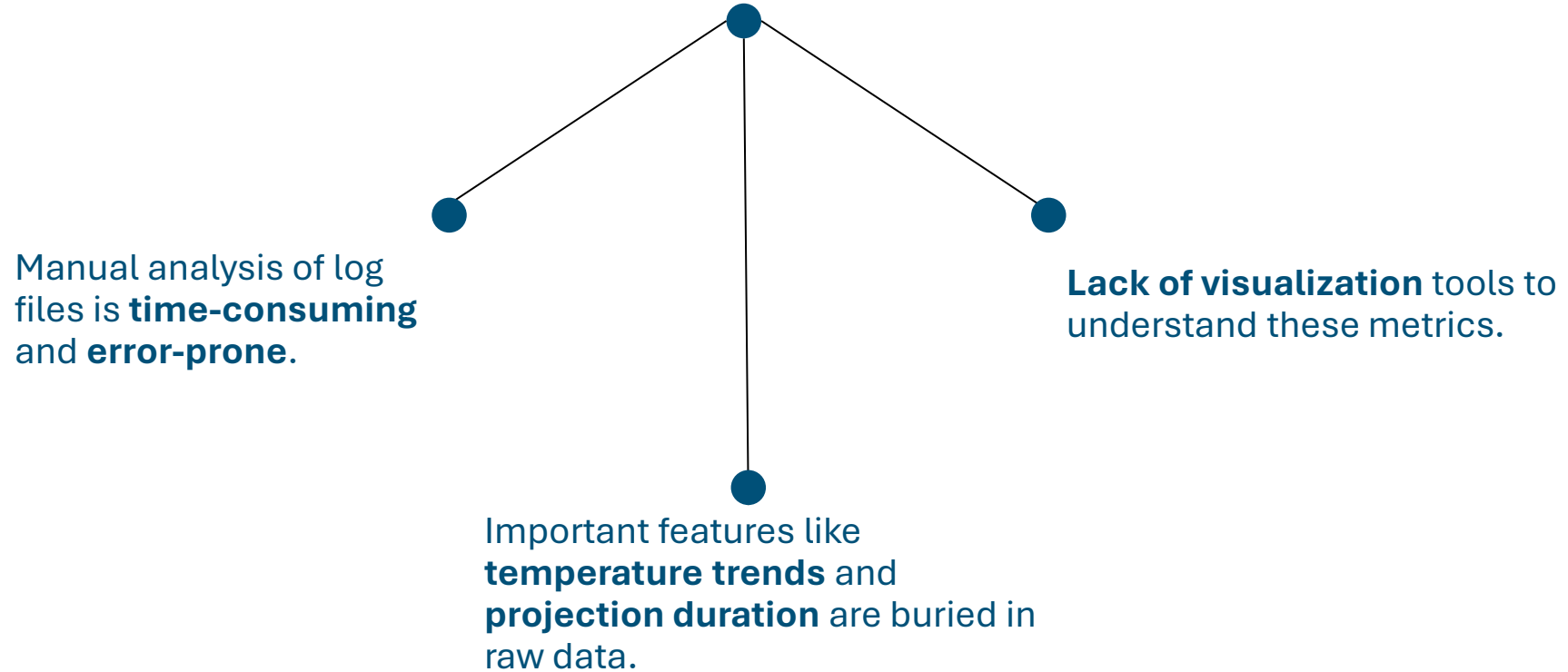
- Travelling
- Cooking
- Football
- Article Writing on LinkedIn
- Scientific illustration designing

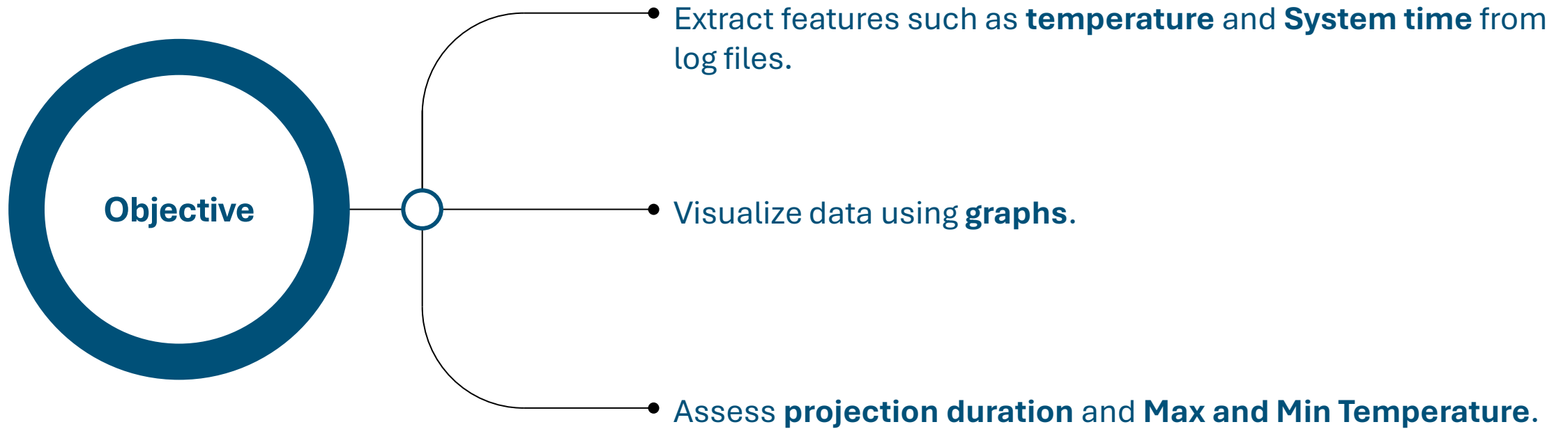


CONTACT INFO

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Problem Statement





Methodology

- Organize the log file
- Extract required columns e.g System Time, plcToPc-elevatorTemp etc.

Log File Structure

- Display important features which are extracted such as Projection duration, start time, end time etc.

Features Display

Feature Extraction

- Unix System time to correct format
- Fill Null values, extract Min/Max Temp from plcToPc-elevatorTemp
- Using pandas, datetime library

Application Development

- Develop on tkinter GUI
- Available to everyone as an application
- Data is stored in sqlite3 Database

Key Features

1

Global Temperature

Global Max & Min Temperature of all the uploaded log file.

2

Log File Temperature

Max & Min Temperature of single log file.

3

Projection Duration

Total Production time in correct format i.e 10hr 02min 27sec

4

Start & End Time

Start & End time of the projection
i.e January 13, 2025
10hr 02min 27sec

5

Graph

Temperature changes with respect to time during the projection.

Impact and Future Work



Impact

- Improved efficiency in **analyzing** projection logs.
- Enhanced understanding of projection machine **performance**.



Future Work

- Add **predictive** analytics.
- Integrate IoT for **real-time monitoring**.

Do you want to see the DEMO of Log file Analyzer Application?

Ok, Let me show you...

Thank you for listening!

Q&A

Do you've any questions? We're happy to answer.