

# Lahari Nagella

Data Analyst | SQL Developer

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- Experienced MES Developer adept at configuring GE Proficy Plant Apps, developing SQL stored procedures, automation using Python, and creating SSRS reports. Skilled in data analysis, test scenario creation, and Azure DevOps ticket management.
- Mechanical Engineering graduate with a strong academic record, including a perfect score in SSC, 98% in +1 and +2, and 75.1% in Bachelor's degree.
- Currently enhancing skills in IoT mashup designing on the PTC Thing Worx Platform. Offered admission to the prestigious Post-Graduate Programme in Management at IIM Visakhapatnam for the batch of 2024-26.
- Recognized with a Gold Medal in the TEZ Carroms competition and achieved 9th rank in the 42nd Mathematical Olympiad, showcasing a commitment to excellence beyond academics.

## Experience

### Cognizant Technology Solutions

AUGUST 2022 - JUNE 2024

#### Associate

##### Python Development:

- Created Python scripts to automate routine tasks, enhance data processing, and integrate seamlessly with MES systems.
- Utilized Python to develop tools for advanced data analysis and reporting.

##### Advanced Excel and VBA:

- Developed complex Excel models for data analysis and reporting, leveraging advanced formulas, pivot tables, and conditional formatting to enhance data visualization and insights.
- Created and maintained VBA macros to automate repetitive tasks, significantly reducing manual effort and increasing efficiency. Designed custom Excel dashboards to track key performance indicators (KPIs) and present actionable data to stakeholders. Implemented data validation and error-checking mechanisms in Excel to ensure data accuracy and consistency.
- Provided training and support to team members on advanced Excel functions and VBA scripting, improving overall team productivity.

##### GE Proficy Plant Apps Configuration:

- Configured plant models to streamline operations and enhance data accuracy.
- Created detailed test scenarios and test cases to ensure system reliability.

##### Requirement Analysis and Testing:

- Conducted thorough requirement analysis to determine the complexity of test scenarios.
- Identified testing scope for both manual and automated processes to ensure comprehensive coverage.

##### MES Stored Procedures Development:

- Amended MES stored procedures to meet specific client requirements, enhancing system functionality.
- Developed robust stored procedures for SSRS Reporting to generate accurate and visually compliant reports.

##### SSRS Reporting:

- Utilized SSRS Report Builder to design front-end reports displaying critical plant-generated data.
- Followed recommended coding and visual standards to ensure the clarity and usability of reports.

##### Post-Deployment Support:

- Provided hypercare support post-deployment, resolving data flow and other operational issues.
- Ensured smooth transitions and minimal disruptions for clients during the post-deployment phase.

##### DevOps Ticket Management:

- Efficiently handled DevOps tickets, resolving issues promptly and ensuring system stability.

##### SQL Debugging:

- Performed SQL debugging in MS SQL Server to troubleshoot and resolve database issues.

##### Functional Design Documents:

- Created comprehensive functional design documents as per client requirements, ensuring clear communication and successful implementation.

## Skills

- **Programming Languages:** Python, SQL, Java, T-SQL, JavaScript (JS)
- **Cloud Platforms:** Azure, AWS
- **Web Development:** HTML, CSS, JavaScript (JS), Figma
- **Database Management:** MS SQL Server, SQL Debugging
- **Reporting and Analysis:** PowerBI, SQL Server Reporting Services (SSRS), Microsoft Report Builder, Tableau, MS Excel
- **Advanced MS Excel:** Extensive experience with advanced Excel functions, VBA, and Macros
- **Testing:** Manual and Automation Testing
- UI/UX Design
- IoT Fundamentals

## Education

**IIITDM Kancheepuram**

AUGUST 2018 - MAY 2022

**Bachelor's degree, Mechanical Engineering**

CGPA - 7.51/10

**Narayana Junior College**

JUNE 2016 - MAY 2018

**+1 and +2**

98%

**Raju High School**

JUNE 2015 - MAY 2016

**SSC**

CGPA - 10/10

## Certifications

**Build Responsive Real-World Websites with HTML and CSS**

JULY 2024

Udemy

[Show Credential](#)

**SQL (Advanced)**

JULY 2024

HackerRank

[Show Credential](#)

**Microsoft Certified: Azure Fundamentals**

JUNE 2024

Microsoft

[Show Credential](#)

**Google Data Analytics Specialization**

AUGUST 2022

Coursera

[Show Credential](#)

**Google Project Management: Specialization**

JULY 2022

Coursera

[Show Credential](#)

**Google IT Support Specialization**

JULY 2022

Coursera

[Show Credential](#)

## **Publications**

### **Energy and economic assessment of machining Ti-6Al-4V in cryo-MQL environment**

JANUARY 2023

#### **Taylor and Francis Group**

- Published a research paper titled '**Energy and economic assessment of machining Ti-6Al-4V in the cryo-MQL environment**' in January 2023. This paper has been accepted as a chapter in the book '**Sustainable Materials and Manufacturing Technologies**, published by Taylor and Francis Group.

## **Projects**

### **Face mask detection using neural networks and MobileNetV2**

2022

- Developed a real-time face mask identification system using OpenCV, TensorFlow, Keras, and MobileNetV2 for accurate 'mask' and 'no mask' classification from various angles, optimized for robust performance and integration with security cameras.

### **Sustainability assessment of process parameter of cryo-MQL machining using AHP and TOPSIS method**

2021

- Utilized Analytic Hierarchy Process (AHP) and Python-based TOPSIS for optimizing energy consumption, carbon emissions, and surface roughness in machining titanium alloys, while integrating cryo-MQL techniques to enhance productivity, tool life, and sustainability.

### **Smart Irrigation using ARDUINO and GSM in Hydroponics**

2020

- Designed and prototyped an 18-planter NFT hydroponic setup, enhancing the efficiency of the irrigation process.
- Implemented an automated plant watering circuit using Arduino and GSM, which significantly reduced manual intervention and improved watering accuracy.

## **Languages**

### **English**

(Full Professional proficiency)

### **Hindi**

(Full professional proficiency)

### **Telugu**

(Native proficiency)

## **Honors**

### **Offer Letter from IIM Visakhapatnam**

JUNE 2024

### **Indian Institute of Management Visakhapatnam**

### **Top 1% scorer in NSEJS**

JANUARY 2016

### **IISc Bangalore**

### **Gold Medal in TEZ Carroms competition**

MARCH 2022

### **IIITDM Kancheepuram**

### **9th rank in 42nd Mathematical Olympiad**

JANUARY 2016

### **Andhra Pradesh association of Mathematics teachers**