

# Krishnendu N G

Data Scientist

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## PROFESSIONAL EXPERIENCE

### Data Science and Machine Learning Intern

Luminar Techohub

10/2024 – present  
Kochi

- Developed chatbots for book recommendations and yoga pose guidance, showcasing expertise in machine learning and natural language processing.
- Implemented innovative solutions for enhancing user interaction and recommendation accuracy.
- Collaborated with a team to analyze data, refine models, and deploy interactive systems.

### Payroll Associate

Sutherland Global Services

03/2022 – 03/2024  
Kochi

- Processed **80-90 payroll cases daily**, ensuring accuracy in payroll adjustments for employees at Amazon UK fulfillment centers.
- Reviewed and validated documents, including medical records and work histories, for leave coding and payroll corrections.

## SKILLS

### Languages

Python : Basic Data Structures, Object-Oriented Programming (OOP)  
SQL

### Machine Learning

Supervised Learning, Unsupervised Learning, Scikit-Learn, Natural Language Processing (NLP)

### Libraries/Frameworks

Pandas, NumPy, TensorFlow, PyTorch, HuggingFace, TTS

### Deep Learning

Neural Networks (NN), Convolutional Neural Networks (CNN), Artificial Neural Network (ANN), Computer Vision, Keras, Large Language Models (LLMs), Long Short Term Memory (LSTM)

### Tools

Flask, GitHub, Excel, Power BI

## PROJECTS

### Satellite Image Classification using CNN

- Created and implemented a Convolutional Neural Network (CNN) to classify satellite images into various land cover categories.
- Collected and preprocessed satellite image data, including normalization and augmentation.
- Designed and implemented a CNN model architecture using TensorFlow and Keras. Evaluated model performance using metrics such as accuracy and achieved accuracy - 92%

### Malayalam to English Translator

- Fine-tuned the Helsinki-NLP/opus-mt-ml-en transformer model for accurate Malayalam-to-English translation.
- Built a Flask-based front-end with an integrated voice-to-text feature for seamless interaction.
- Preprocessed and trained on TED2020 bilingual datasets, achieving robust performance metrics.
- Utilized PyTorch and Hugging Face Trainer API for training and evaluation.

### Real-Time Sign Language Translation and Personalized Voice Generation

- Developed a real-time system to translate Indian Sign Language (ISL) gestures into text using a TensorFlow-based deep learning model.
- Utilized OpenCV for gesture detection to ensure accurate and efficient hand tracking and recognition.
- Integrated a TTS-based personalized voice cloning module leveraging reference audio and YourTTS.
- Generated speech from translated text, enhancing communication accessibility for mute individuals.

### Supply Chain Analytics Dashboard using Power BI

- Analyzed delivery performance metrics, identifying root causes of service-level issues that caused the loss of five key customer contracts; focused on improving accuracy in on-time and complete order fulfillment strategies.
- Built and designed a Power BI dashboard to track daily delivery performance metrics such as On-Time Delivery (OT) %, In-Full Delivery (IF) %, and On-Time in Full (OTIF) %, as requested by management.
- Created dynamic visualizations that displayed customer service levels against predefined targets, enabling quick identification of underperforming areas.
- Derived actionable insights to improve delivery efficiency by identifying trends and patterns in customer order fulfillment.
- Assisted in expanding the company's operations by providing detailed data analysis to resolve delivery-related challenges in three cities—Surat, Ahmedabad, and Vadodara.

## EDUCATION

### Bsc Physics

Maharajas College ,Ernakulam

06/2014 – 03/2017

### Data Science course

Luminar Technolab

02/2024 – 08/2024

### Msc Applied Electronics

School of Technology and Applied Sciences

06/2018 – 07/2020