

# Lionel Jerald Serrao

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## EDUCATION

### Manipal Institute of Technology

BTech. Data Science & Engineering: CGPA: 7.36

Manipal, Karnataka

2022 - 2026

### Expert P.U. College

Karnataka State Board - XII; Percentage: 95.33%

Mangalore, Karnataka

2020 - 2022

### Indian School Al Seeb

CBSE - X; Percentage: 93.8%

Muscat, Oman

2008 - 2020

## EXPERIENCE

### 1. Artificial Intelligence Trainee - Corizo (Certified by Wipro DICE, MSME, ISO) | Aug 2024 – Sept 2024 [\(Certificate\)](#)

#### *Remote / Virtual Training Program*

- Completed a comprehensive 1-month training program covering core concepts in Artificial Intelligence.
- Gained hands-on experience with machine learning algorithms, data preprocessing, and model evaluation techniques.
- Applied Python for implementing AI workflows, including regression, classification, and basic neural networks.
- Participated in live sessions, projects, and evaluations, demonstrating skills in consistency, determination, and innovation.
- Collaborated with mentors and peers, showcasing active engagement throughout the training.

### 2. Software Development Intern – Mindstack Technologies | May 2025 – Present

[\(Offer Letter\)](#)

#### *On-site Training Program*

- Assisting in the development of software solutions using the MERN stack (MongoDB, Express.js, React.js, Node.js) and LLM/AI models.
- Building minor web projects and features using HTML, CSS, JavaScript, React, and Fetch API as part of continuous learning.
- Collaborating with senior developers to resolve issues and contribute to scalable, real-world applications.

## PROJECTS & PARTICIPATIONS

### 1. Mood-Based Music Recommender System

Built and deployed a deep learning system for emotion-based music recommendation using FER2013 (facial emotion recognition) and Spotify audio features. Leveraged TensorFlow, Keras, and spectrogram-based preprocessing for mood classification. Evaluated CNN, ResNet-50, EfficientNet-V0, MobileNet, and Transformer models, achieving the highest accuracy with Conv-GRU. Deployed a fast, interactive frontend using Yarn and Vite.

[\(GitHub\)](#)

### 2. Multi-Purpose FAQ Chatbot (Philips Ideathon 2025)

Designed and implemented an AI-powered FAQ chatbot leveraging a RAG pipeline with Gemini and Zephyr models to deliver context-aware answers from PDFs, static text, or websites; integrated semantic search, prompt engineering, and feedback refinement for scalable, document-driven insights.

[\(GitHub\)](#)

### 3. Joke Generator Web App | HTML, CSS, JavaScript, API Integration

Built an interactive joke platform that integrates with public APIs to fetch random and domain-specific jokes. Enabled user-added jokes through POST requests, dynamically rendered joke cards with custom styling, and added DOM-based external linking for extended joke exploration.

[\(GitHub\)](#)

## CERTIFICATIONS

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1. CCNAv7: Introduction to Networks ([Certificate](#))
2. CCNAv7: Switching, Routing and Wireless Essentials ([Certificate](#))
3. CCNAv7: Enterprise Networking, Security and Automation ([Certificate](#))
4. IBM - Python for Data Science, AI & Development ([Certificate](#))
5. Cybersecurity Essentials ([Certificate](#))
6. Python Essentials 1([Certificate](#))
7. Python Essentials 2([Certificate](#))
8. Introduction to Cybersecurity ([Certificate](#))

## SKILLS

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- **Languages:** Python, C++, SQL, MongoDB, Java, C, LaTeX
- **Libraries & Frameworks:** Numpy, Pandas, Seaborn, Matplotlib, OpenCV, TensorFlow, Scikit-Learn, PyTorch, Keras, Selenium, Streamlit, PIL, Huggingface, NLTK, DICOM, Express.js, React.js, Node.js, REST API
- **Tools:** HTML, CSS, JavaScript, Jupyter Notebook, Google Colab, Excel, OpenMP, MPI, CUDA, Hadoop, Spark, Hive, Version Control (Git & GitHub), Networking