

# MUNI CHARMITHAN

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## Objective

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Motivated and detail-oriented student pursuing a degree in Artificial Intelligence and Data Science. Skilled in Python and data analysis, with hands-on experience through academic projects and internships. Eager to apply knowledge in AI and data science to contribute to innovative, forward-thinking organizations while growing as a professional.

## Education

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### B.Tech – Artificial Intelligence and Data Science

Rajalakshmi Institute of Technology, Chennai | Expected: 2026

CGPA: 9.06 (Till Semester 5)

Class XII – Velankanni Matriculation and Higher Secondary School | 2022

Percentage: 94.6%

## Skills

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- Programming Languages: Python, C
- Libraries: Pandas, NumPy, Scikit-learn, TensorFlow, Matplotlib
- Databases: SQL

## Internship Experience

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**Data Science Intern** | Cognifyz Technologies | Feb 2025 – Mar 2025

- Gained practical experience in exploring real-world datasets — handling missing values, performing type conversions, and extracting insights through statistical analysis and data visualization.
- Applied feature engineering techniques and trained multiple regression models; evaluated performance using  $R^2$  and RMSE to identify the best-performing model.
- Worked with tools such as Pandas, Excel, Plotly, Folium, and basic machine learning algorithms, enhancing both programming and analytical skills.

## Projects

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### Anxiety Detection Using Pre-Trained Facial Expression Recognition (FER)

- Implemented the FER library to analyze facial expressions in video footage for detecting signs of anxiety, such as fear, sadness, and surprise.
  - Gained experience in video processing and real-time emotion detection using machine learning libraries.
- Technologies Used: Python, FER library, OpenCV

## Publications

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### Image Preprocessing and Background Removal with Pixel-level Analysis.

Migration Letters, 20(S13), 492–497. <https://doi.org/10.59670/ml.v20iS13.6479>

This research presents a novel method for background removal in image processing using pixel-level analysis and advanced algorithms, significantly improving accuracy and effectiveness across various industries.

## Achievements

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- Awarded full tuition sponsorship through Sabari Foundation for high academic performance in 12th grade.
- 1st Prize, Interschool Painting Competition (2020) – recognized for creativity.

## Extracurricular Activities

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### **Volunteer, Youth Red Cross (YRC)**

- Helped organize blood donation camps and health awareness programs in college, contributing to student and community engagement.

## Leadership Experience

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### **Vice President** – Academics, College Leadership Council

- Address student concerns related to academic structure, coordinate with faculty, and assign responsibilities to other council members to improve academic support.

## Languages Known

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English, Tamil, Telugu