

# Roshan Mohapatra

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## Professional Summary

Highly motivated and creative B.Tech (CSE-AIML) student with a passion for both technology and creative expression. Proven ability to develop innovative AI/ML solutions while leveraging technical expertise in backend development and data science. Experienced in building full-stack applications, including a lyrics management platform and voice-enabled tools, which demonstrate a knack for enhancing user experiences through technology. Eager to merge technical skills with creative writing to contribute to dynamic songwriting projects, with a strong foundation in Python, FastAPI, and machine learning tools.

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## Skills

### Creative & Writing

- Lyrics Composition
- Poetry and Rhyme Scheme Development
- Creative Writing Tools (Scrivener, Google Docs)
- AI-Assisted Writing (ChatGPT, Midjourney)

### Technical & AI/ML

- Python, FastAPI, React.js
- Machine Learning (Scikit-learn, Pandas, NumPy)
- NLP (spaCy, Text Analysis)
- Cloud Platforms (AWS, Supabase)

### Other

- Git, GitHub
  - VS Code, Jupyter
  - UI/UX Design Tools (Figma, Canva)
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## Projects

### LyricsVerse

A full-stack platform for managing and generating lyrics across multiple languages.

- Designed and built a REST API using FastAPI with JWT authentication.
- Implemented role-based access control and CRUD operations for lyrics and translations.
- Integrated with Supabase for database management.

### VoiceLyricist

A voice-enabled tool for songwriters to input ideas hands-free and generate lyrics.

- Developed a speech-to-text system using Python libraries.
- Created a responsive frontend with React.js for intuitive user interaction.
- Prototype stage, designed to assist songwriters in brainstorming and composition.

### AI Lyric Generator

An AI-powered tool that generates song lyrics based on user input and themes.

- Built using FastAPI and NLP techniques for text analysis and generation.
- Trained on datasets of existing lyrics to produce original content.

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# Experience

## ML Research Intern

Institute of Life Sciences (ILS) | Bhubaneswar, Odisha

Dec 2024 – Feb 2025

- Developed ML models for analyzing songwriting patterns and trends.
- Assisted in data preprocessing and model training using Python and Scikit-learn.
- Built FastAPI backend for deploying AI-based lyric analysis tools.

## Backend Developer Intern

NextTech | Bhubaneswar, Odisha

Feb 2025 – Present

- Developed REST APIs for a lyrics platform using FastAPI and Supabase.
  - Implemented JWT-based authentication and role-based access control.
  - Collaborated with the team on backend design, testing, and deployment.
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# Education

## GITA Autonomous College

B.Tech in Computer Science and Engineering (Artificial Intelligence and Machine Learning)

2022 – Present

- Secured an average of 85% in 3 years.

## Kendrapara Public School

12th (Science Stream)

2020 – 2022

- Secured 85%.

## Kendrapara Public School

10th

2020

- Secured 83%.
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# Certifications

- Machine Learning – Andrew Ng (Coursera)
- REST API Development (FreeCodeCamp)
- AI for Everyone (Coursera)
- ...