```markdown

# Roshan Mohapatra

razzrosan78@gmail.com | 8457950292 | Bhubaneswar, Odisha

## Professional Summary

Highly motivated and skilled B.Tech (CSE - AIML) student with hands-on experience in AI/ML model development, backend API design, and full-stack web applications. Proficient in Python, FastAPI, and data science tools, with expertise in RESTful API development, cloud-based databases, and machine learning implementation. Demonstrated ability to build and deploy real-world projects, including cancer detection systems, multilingual transliteration APIs, and voice-enabled healthcare solutions. Eager to contribute to innovative tech teams and grow as a backend or full-stack developer in challenging roles.

## Skills

### Programming Languages

- Python, Java (Core)

### Web Development

- FastAPI, React.js, HTML5, CSS3, Tailwind CSS, CORS

### Machine Learning & Data Science

- Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Jupyter Notebook

### API Development & Backend

- RESTful API Design, JWT Authentication, SQLAlchemy, Pydantic

### Cloud & DevOps

- AWS (EC2, S3, Lambda – beginner level), Supabase, Git, GitHub, Postman

### Databases

- PostgreSQL, Supabase DB, Oracle

### Libraries & Tools

- SpeechRecognition, pyttsx3, spaCy, OpenCV, PyPDF2, Docker, Figma, Canva

## Experience

### Backend Developer Intern

**NextTech** | Bhubaneswar, Odisha | Feb 2025 – Present
- Developing REST APIs for a lyrics application using FastAPI and Supabase.
- Implemented JWT-based authentication and role-based access control.
- Collaborated with the team on backend design, testing, and deployment.

### ML Research Intern

**BADAL Institute of Life Sciences (ILS)** | Bhubaneswar, Odisha | Dec 2024 – Feb 2025
- Developed ML models for multi-class cancer detection using gene expression data and radiological images.
- Built FastAPI backend with JWT authentication and Supabase integration.

- Collaborated with researchers for data preprocessing, model training, and API deployment.

# Projects

### Online Cancer Detection System

- Machine learning-based multi-class cancer classification system using gene expression data and radiological images.
- Trained and evaluated models using Logistic Regression, SVM, and Random Forest.
- Built REST APIs with FastAPI, JWT authentication, and Supabase PostgreSQL integration.

### Lyrics Management Web App

- Full-stack lyrics platform enabling upload, search, and management of multilingual lyrics.
- Designed and implemented backend in FastAPI with Supabase PostgreSQL database.
- Developed secure user login and admin access with JWT-based authentication.

### Voice-Assisted Healthcare Kiosk

- Designed a voice-enabled healthcare kiosk prototype for elderly and visually impaired users.
- Implemented speech-to-text and text-to-speech features using Python libraries.
- Planned backend integration with KIIMS hospital API (prototype stage).

### Indian Language Transliteration API

- API service for transliterating text between multiple Indian languages.
- Created FastAPI endpoints with Pydantic schema validation and error handling.

### Resume Parser API

- API service to extract structured data from uploaded resumes (PDF/DOCX).
- Used pdfminer, docx, and spaCy for file reading and NLP-based entity extraction.

### Expense Tracker API

- Backend service for managing personal expenses and income with summaries and categorization.
- Implemented CRUD APIs using FastAPI and PostgreSQL with JWT-based authentication.

### AI Career Suggestion Bot

- ML-based bot that suggests career options based on user-input skills and interests.
- Built with FastAPI and rule-based/ML logic for recommendations.

# Education

### GITA Autonomous College

**Bachelor of Technology in Computer Science and Engineering (AIML)** | 2022 – Present
- Secured an average of 85% in 3 years.

### Kendrapara Public School

**Higher Secondary School (12th)** | 2020 – 2022
- Secured 85%.

### Kendrapara Public School

**Secondary School (10th)** | 2020
- Secured 83%.

# Certifications

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

---

# Objective

Seeking a challenging role as a Backend Developer or Full-Stack Developer to leverage my skills in API development, machine learning, and cloud-based technologies. Eager to contribute to innovative projects and grow within a dynamic tech team.
```