

PROFESSIONAL SUMMARY

Engineering student specializing in Machine Learning, Deep Learning, and Natural Language Processing with hands-on experience building AI-powered applications and production-level pipelines. Proficient in Python, TensorFlow, Scikit-Learn, and FastAPI. Experienced in data preprocessing, feature engineering, model training, evaluation, and deployment. Strong problem-solving skills with focus on real-world AI system development.

TECHNICAL SKILLS

- **Languages:** Python, C++, SQL
- **Machine Learning / Deep Learning:** TensorFlow, Keras, Scikit-Learn
- **Libraries:** NumPy, Pandas, NLTK, OpenCV
- **Frameworks / Tools:** FastAPI, LangChain, Hugging Face, Tesseract OCR
- **Core Concepts:** Machine Learning, Deep Learning, NLP, Large Language Models (LLMs), Data Preprocessing, Feature Engineering, Model Evaluation, Classification, Regression, REST API Development

EDUCATION

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| • Silicon University <i>Bachelor of Technology in Electronics and Communication Engineering</i> | Bhubaneswar, Odisha 2022 – 2026 |
| • Sai Higher Secondary School <i>Senior Secondary (Class XII)</i> | Baripada, Odisha 2020 – 2022 |
| • St. Mary's Convent School <i>Matriculation (Class X)</i> | Baripada, Odisha Pass-out: 2020 |

EXPERIENCE

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| • Naada Tech | |
| • <i>AI Engineer Intern</i> | Nov 2025 – Present |
- Designed and implemented end-to-end AI pipelines for document processing involving OCR, translation, and structured extraction from image-based textual data.
 - Integrated Tesseract OCR and layout detection models to extract and organize text from scanned documents and complex newspaper layouts.
 - Developed multilingual translation workflows using Large Language Models (LLMs) for automated content transformation.
 - Built preprocessing pipelines including image enhancement, text normalization, and structured output generation for downstream applications.
 - Optimized model inference workflows for improved accuracy, scalability, and efficient batch processing.

TECHNICAL PROJECTS

- **Smart Study API**
 - Developed an AI-powered quiz generation system using FastAPI for automated knowledge assessment.
 - Implemented adaptive learning algorithms where quiz difficulty dynamically adjusts based on user performance.
 - Integrated LangChain and Hugging Face models for intelligent question generation and difficulty scaling.
 - Designed RESTful API endpoints for quiz delivery, response evaluation, and performance tracking.
- **Next Word Prediction using GRU RNN**
 - Preprocessed text corpus using NLP techniques including tokenization, sequence generation, and vocabulary encoding.
 - Built and trained a GRU-based Recurrent Neural Network using TensorFlow/Keras for next-word prediction tasks.
 - Evaluated model performance and optimized training parameters for improved prediction accuracy.

- **IPL Match Winner Prediction**

- Performed data cleaning, feature engineering, and preprocessing on historical IPL dataset.
- Trained Logistic Regression classification model using Scikit-Learn achieving approximately 84% accuracy.
- Improved generalization through hyperparameter tuning and performance evaluation.

ACHIEVEMENTS & ACTIVITIES

- Best Business Model Winner – Innovate Odisha 2.0 Hackathon (AI/ML Contribution)
- 2nd Runner-Up – Solo Instrumental Competition, IIT Kharagpur
- Mentored junior students in technical learning and project guidance
- Winner – Battle of Bands competitions across multiple institutions