

Arpit Kumar Nayak

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PROFESSIONAL SUMMARY

Engineering student specializing in Machine Learning and Deep Learning with experience in developing NLP models, classification systems, and REST APIs. Skilled in Python, TensorFlow, Scikit-Learn, and data preprocessing techniques. Built AI-driven applications involving model training, evaluation, and deployment. Seeking opportunities in AI / ML-driven product development.

TECHNICAL SKILLS

- **Languages:** Python, C++, SQL
- **Machine Learning / Deep Learning:** TensorFlow, Keras, Scikit-Learn
- **Libraries:** NumPy, Pandas, NLTK
- **Frameworks / Tools:** FastAPI, LangChain, Hugging Face
- **Core Concepts:** Machine Learning, Deep Learning, NLP, Data Preprocessing, Feature Engineering, Model Evaluation, Classification, Regression, REST API Development, Data Structures and Algorithms

EDUCATION

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

TECHNICAL PROJECTS

- **Smart Study API**
 - Developed an AI-powered quiz generation system using FastAPI for knowledge assessment.
 - Implemented adaptive learning logic where quiz difficulty adjusts based on user performance.
 - Integrated LangChain and Hugging Face models for dynamic question generation.
 - Designed RESTful API endpoints for quiz delivery and response handling.
- **Next Word Prediction using GRU RNN**
 - Preprocessed text corpus using NLP techniques including tokenization and sequence generation.
 - Trained a GRU-based Recurrent Neural Network for next-word prediction.
 - Utilized TensorFlow / Keras for model development and training.
- **IPL Match Winner Prediction**
 - Performed data preprocessing and feature selection on historical IPL dataset.
 - Trained Logistic Regression classification model using Scikit-Learn.
 - Evaluated model performance using accuracy metrics (achieved 84% accuracy).
 - Improved generalization through hyperparameter tuning.

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