

SHRIMAN ADITYA RANJAN NAYAK

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Professional Summary

Driven Computer Science student with expertise in AI/ML engineering, data engineering, and web development. Specializes in data-driven solutions, intuitive dashboard design, and deploying machine learning models. Adaptable, detail-oriented, and collaborative, with strong problem-solving skills. Passionate about continuous learning and delivering impactful results in team environments.

Education

Parala Maharaja Engineering College

Sep. 2021 – May 2025

B.Tech - Computer Science and Engineering - 8.14 CGPA

Berhampur, Odisha

Relevant Coursework

Operating Systems, Computer Networks, Database Management Systems, Data Structures and Algorithms, Finite Automata, Discrete Mathematics

Skills

Languages: Java, Python, SQL, JavaScript

Technologies/Frameworks: MongoDB, Express.js, React.js, NodeJS, MySQL, Pandas, Numpy, Scikit-Learn, TensorFlow, Matplotlib, Seaborn, Docker, Kubernetes, Linux OS

Tools: VS Code, Jupyter Notebook, Google Colab, Postman, Git, GitHub

Platforms: Power BI, PowerPoint, Amazon AWS, Google Cloud Platform

Soft Skills: Rapport Building, Strong Stakeholder Engagement, Excellent Communication

Projects

Nifty50 Forecasting with LSTM | *Docker, FastAPI, Recharts, Git workflow* **October 2024** | [Git](#) | [Link](#)

- Engineered an LSTM model for Nifty50 forecasting with 95 accuracy, containerized with Docker for deployment, and automated data collection using Cron jobs.
- Designed and deployed a full-stack dashboard using React, FastAPI, and MongoDB, integrating LSTM predictions (tomorrow and weekly forecast) with interactive visualizations using Recharts and Material-UI.

YouTube Trending Videos Dataset Analysis | *S3, Glue, Lambda, Athena* **October 2024** | [Git](#)

- Architected a data pipeline using AWS S3, AWS Glue, and AWS Lambda to automate the ingestion, transformation, and loading of the dataset.
- Engineered an interactive analytics platform with AWS Athena, and QuickSight to visualize content performance trends.

Spotify Song Dataset Analysis | *Power BI, Spotify Dataset, HTML, DAX* **July 2024** | [Git](#)

- Engineered a comprehensive Power BI dashboard to analyze the most streamed songs, leveraging DAX for complex calculations.
- Developed key visual components, including KPI cards, bar charts for track comparisons across platforms (Spotify, Apple, Deezer), temporal trends with line graphs, and an energy percentage gauge.

Music Genre Prediction | *GTZAN Dataset, Librosa, Cosine Similarity* **January-February 2024** | [Link](#)

- Developed a music genre prediction model using mel spectrograms and the GTZAN dataset, evaluating models such as Naive Bayes, SGD, KNN, Decision Trees, Random Forest, SVM, Logistic Regression, Neural Networks, and achieving 90.224 accuracy with XGBoost.
- Built a music recommender system using the cosine similarity library to recommend similar audio files based on audio features extracted with Librosa.

HypeVibe - YouTube Clone | *ReactJs, Material UI, Rapid API* **December 2023** | [Git](#) | [Link](#)

- Engineered a YouTube clone using React and Material UI, integrated Rapid API for video data retrieval.
- Implemented asynchronous JavaScript with Axios for API requests and used Postman for testing.

Achievements

Smart India Hackathon 2023 National Finalist

September-December 2023

- Developed ADDA as a solution to the Smart India Hackathon 2023 problem statement, which was to identify skin diseases.
- Utilized transformer models BioBERT and GPT-2 for the NLP question-answering part and Resnet50 for recognizing skin diseases in the computer vision part.
- Skills learned: Transformers model (BioBERT, GPT2), Hugging Face, Resnet50, Streamlit, BeautifulSoup.