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*

DAV Public School — **June 2018 – March 2020**
CBSE-XII - ***88.2%*** — *Berhampur, Odisha*

De Paul School — **May 2008 – May 2018**
ICSE-X - ***91.00%*** — *Berhampur, Odisha*

Skills

Languages: Java, Python, SQL, JavaScript
Technologies/Frameworks: MongoDB, Express.js, React.js, NodeJS, MySQL, Pandas, Numpy, Scikit-Learn, TensorFlow, Matplotlib, Seaborn, Docker, Kubernetes
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

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, implementing HTML visuals and glass morphism backgrounds for aesthetic appeal.

Portfolio Website | *ReactJs, Framer Motion, NodeJs, MongoDB-Atlas, Express* — **May 2024** | **Git** | **Link**

- Developed a minimalist responsive SPA using React and Material UI, implementing smooth animations with Framer Motion and react-scroll for smooth scrolling, enhancing engagement.
- Built a full-stack contact form with Express, MongoDB-Atlas, and Express Validator through which users can send messages directly; performed unit testing with Jest and enforced code quality using ESLint.

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, and optimized streaming processes for responsiveness.
- Implemented asynchronous JavaScript with Axios for API requests and used Postman for testing and validation of the application's functionality.

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.