Prince Sompura

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Four-year Computer Science and Engineering student with hands-on experience in Machine Learning and Full-Stack Web Development (MERN). Proficient in building scalable ML models and implementing modern web applications using React, Node.js, Express, and MongoDB. Adept at working across the full software development lifecycle, from data preprocessing and model training to API integration. Passionate about delivering impactful solutions that bridge the gap between AI and user-centric products.

EDUCATION

Parul University   Vadodara, IN
Bachelor of Technology in Computer Science and Engineering   *Dec. 2021 – May 2025*

New Look Sr. Sec. School   Banswara, IN
Higher Secondary School Certificate   *March. 2020 – May 2021*

EXPERIENCE

Machine Learing Intern   Dec 2024 – April 2025
Unified Mentor Pvt Ltd.   *Gurugram, IN*

- During my internship as a Machine Learning Intern, I developed a full-stack Lung Cancer Prediction System.
- I handled data preprocessing, feature engineering, and built models using Logistic Regression and Random Forest.
- I deployed the model using Flask APIs, created a ReactJS frontend, integrated it via Supabase, tested APIs with Postman, and deployed the project on Render.
- This experience strengthened my skills in machine learning, Python, API development, and full-stack integration.

PROJECTS

NextHire-AI– AI Interview Platform | *https://next-hire-ai-eta.vercel.app*   –

- Built a full-stack AI Interview Platform using Next.js, React, ShadCN UI, and Vapi for real-time recruiter-like conversations
- Integrated OpenAI for intelligent question generation and Vapi.ai for natural voice-based interaction
- Engineered Razorpay integration for secure credit-based payment processing and user-specific access control.
- Designed interactive components for starting interviews, configuring options, viewing history, and managing interview sessions

Lung Cancer Prediction System | *https://lung-cancer-prediction-1-nid3.onrender.com*   –

- Developed a full-stack Lung Cancer Prediction System using Logistic Regression, trained on a dataset of 89,000 patients.
- Used SMOTE for class imbalance handling and GridSearchCV for hyperparameter tuning to optimize accuracy.
- Built a Flask REST API with robust preprocessing (encoding, scaling, date conversion), deployed on Render
- Designed a clean frontend using React, Radix UI, and Tailwind CSS for intuitive data input and results visualization.

ReFashify– Fashion Platform | *https://re-fashify-app.vercel.app*   –

- Developed a full-stack MERN-based fashion ecosystem promoting sustainable practices through rental and upcycled clothing.
- Created an Upcycling Hub for designers and a Clothing Rental system for users.
- Implemented secure user authentication, payment processing, and Redux Toolkit for efficient state management
- Designed a responsive and engaging UI using ShadCN UI and React for seamless user navigation.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, SQL
Web Development:: HTML, CSS, React.js, ShadCN UI, Node.js, Express.js
Machine Learning: Scikit-learn, Pandas, NumPy, SMOTE
Tools and Platforms: MongoDB, Supabase, VS Code, Linux, Git, Jupyter Notebook
Soft Skills: Teamwork, Communication, Problem Solving, Adaptability