Satyarth Ranjan

Mohali, Punjab | Satyarthranjan4488@gmail.com | 9122054488 | Portfolio | linkedin | github.com

Professional Summary

A recent Computer Science graduate with hands-on experience in both data science and backend development. Proven ability to build end-to-end solutions, from developing machine learning models with Python to deploying responsive web applications using React and Node.js. Eager to secure a challenging role that bridges data analytics and software engineering.

Education

Chandigarh University, BE in Computer Science June 2021 – July 2025

- CGPA: 7.72/10.0
- **Coursework:** Computer Architecture, Comparison of Learning Algorithms, Computational Theory, Artificial Intelligence

Publications

Developing an AI-Driven Fraud Detection System: A Machine Learning Approach Dec 2024

Sachin Maurya, ***Satyarth Ranjan***, Amitranjan Maurya

12-1055-17458350077-14

Projects

Diamond Gemstone Price Prediction github

- Built an end-to-end machine learning pipeline to predict diamond prices, including data ingestion, preprocessing, feature engineering, model training, and evaluation.
- Developed modular scripts and Jupyter notebooks for automated data processing, interactive model experimentation, and batch price prediction on new data.

Vendor Performance Data Analytics github

- Developed a vendor performance analytics solution with automated data ingestion, database management, and analysis workflows to support data-driven supplier decisions.
- Leveraged Python, Pandas, and SQLAlchemy in Jupyter Notebook; released as an open-source project under the MIT License.

Lamp Ecommerce Website github

- Built a responsive React website for a lamp store with dynamic product listings, interactive UI, and seamless client-side navigation.
- Leveraged modern state management, reusable components, and custom hooks to ensure scalable, maintainable, and efficient front-end architecture.

Gust Wind Data Analysis github

- Developed a comprehensive wind data analysis and processing tool using Python, leveraging Pandas and NumPy to clean, process, and visualize large datasets for actionable insights.
- Applied advanced statistical analysis to extract actionable insights for energy and environmental applications.

Technologies

Languages: C++, Python, Typescript, SQL, JavaScript, HTML, TailwindCSS

Framework: React, Django, Flask, Node, Express

Technologies: PowerBI, Tableau, Canva, VScode, Github, Figma, AWS, Microsoft Azure

Database: PostgreSQL, MYSQL, Prisma, MongoDB