

Aryaman Saini

LinkedIn: www.linkedin.com/AryamanSaini
GitHub: www.github.com/AryamanSaini30

Email: aryamansaini10d@gmail.com
Mobile: +91 9877450711

SKILLS

Languages: C, C++, Python, HTML, CSS, Java
Tools/ Platforms: MySQL, Git/GitHub, Visual Studio Code, Streamlit
Soft Skills: Problem-Solving, Analytical Reasoning, Adaptability, Fast Learner, Effective Communication

PROJECTS

Advanced Land Record NER System | Python, PyTorch, BiLSTM-CRF, GloVe, Streamlit January 2026

- Built a production-grade Named Entity Recognition (NER) system using PyTorch and BiLSTM-CRF, enabling precise entity extraction from unstructured land records with zero rule-based dependencies.
- Designed a robust data generation pipeline using Combinatorial Grammars to synthesize 15,000+ training samples, enabling the model to generalize across complex linguistic patterns without manual annotation.
- Implemented advanced semantic learning using GloVe embeddings and targeted negative sampling, identifying and resolving complex edge cases like passive voice ambiguity and date/cost confusion.

Predict Electricity Consumption using Appliance Usage with Machine Learning September 2025

- Developed a web-application focusing on predicting monthly electricity bill without knowing how individual appliances contribute
- Collected data set of different households' appliances usage from different cities of India, pre-processed the data- handling missing values- normalization.
- Developed a web-based dashboard using Streamlit to visualize the predictions and energy consumption, put together the use of python programming and concept of Machine Learning , used pandas, scikit and matplotlib libraries to train and analyse data and for data visualization

Cloud Cost Optimization Chatbot | Streamlit, Gemini API, Python August 2025

- Developed an AI-driven cloud financial operations platform using Streamlit and Google Gemini, enabling real-time conversational analysis and actionable cost-reduction strategies across multi-cloud environments (AWS, Azure, GCP).
- Engineered a context-aware data processing pipeline that integrates Pandas with Large Language Models, allowing the system to intelligently interpret uploaded cost usage reports and generate data-driven insights while optimizing token usage.
- Implemented a responsive, user-centric interface featuring dynamic response stylization, real-time streaming, and session persistence, streamlining the identification of idle resources and facilitating effective cloud infrastructure.

TRAINING

Data Structures Algorithms - Cipher Schools [\(Link\)](#) June 2025 – July 2025

- Studied OOPs from basics to revise the previous knowledge
- Learnt Data Structures and Algorithms, their different use cases and practical outcomes.
- Applied the learnings in a project – Dice Game [\(Link\)](#)

CERTIFICATIONS

- Data Analytics with Python - NPTEL [\(Link\)](#) December 2025
- Build Generative AI Apps and Solutions with NO-Code Tools November 2025
- Introduction to Large Language Models – Udemy October 2025
- Responsive Web Design - FreeCodeCamp October 2025

EXTRA-CURRICULAR ACTIVITIES

- Achieved Top 200 rank among 1500+ projects in Nation Level Hackathon by TechXNinjas November 2025
- Partnered with an NGO to feed and nourish stray dogs June 2025

EDUCATION

- Lovely Professional University** Phagwara, Punjab
Bachelor of Technology - Computer Science and Engineering: **CGPA: 7.38** August 2023 - Present
- Swami Sant Dass Public School** Jalandhar, Punjab
Intermediate: **Percentage: 80** August 2022 - May 2023
- Swami Sant Dass Public School** Jalandhar, Punjab
Matriculation: **Percentage: 90** June 2020 - June 2021