
Education

2022-2026	Pranveer Singh Institute of Technology BTech, CS-AI	81.20%
2022	12 th (Intermediate Education) CBSE	79.82%
2020	10 th (High School Education) CBSE	91.20%

Projects

Admission Prediction - [Visit Website](#)

- Developed a predictive model for graduate admissions using linear regression with **90% accuracy**.
- Performed **feature engineering** and **data preprocessing** to enhance model interpretability and performance.

FARM Stack - Machine Learning

LLM-Powered AI Agent - [HuggingFace](#)

- Built an AI agent using **smolagents** that integrates LLM-powered decision-making with external function calls
- Designed and integrated **custom tools** for data retrieval, grammar correction, and web search.
- Utilized **Qwen2.5-Coder-32B-Instruct** to process user queries and trigger relevant tools.

Python - LLMs - Tool Agents

Bitcoin Transaction Deanonimization

- Processed and analyzed **14 million** blockchain transaction record.
- Employed **feature engineering** and **model evaluation techniques** to enhance performance.

Python - Deep Learning - Tensorflow - scikit-learn

Machine Learning mini Projects - [Github](#)

- Developed mini-projects to enhance proficiency in machine learning, deep learning, and data preprocessing, including analyses on the Titanic dataset, MNIST dataset, and recommendation system, etc.

Technical Skills

- Languages:** Python, Java, C++, JavaScript, SQL, NoSQL (MongoDB)
- Data Science & ML:** Pandas, NumPy, Matplotlib, Data Cleaning, Feature Engineering, Tensorflow, sci-kit learn
- Tools & Frameworks:** Git, Postman, Gradio, smolagents
- Coursework:** Data Structures & Algorithms, OOD, Statistical Analysis, Experimental Design, Problem-Solving

Trainings and Workshops

- Pursued **Machine Learning with Python** course from **freeCodeCamp**.
- Pursued **Python for Data Science** course from **IBM**.
- AI Camp'23** on **Machine Learning** by **Community AI Inc.**
- Pursued **GenAI Virtual Experience Program** from **BCG** by **Forage**.
- Completed **Fundamentals of Agents** course by **HuggingFace**

Awards and Achievements

- Third Position** in **Inter School Mathematics Written Competition** - 2016
- Codekaze** - June 23 Round 2 Coding Challenge, **AIR – 18720**
- Solved 600+ Questions on LeetCode, 200+ questions on GeeksForGeeks, and 5 star in problem solving on Hackerrank

Research & Publication

- Conducted a comprehensive review of mathematical principles in Machine Learning.
- Explored statistical techniques and logical reasoning in AI-driven applications.