



Akhil

Bachelor of Technology  
in Chemical Engineering  
Indian Institute Of Technology, Ropar

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GitHub | LinkedIn

## EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	7.21 (Till 5th Sem)	2022-2026
Senior Secondary	Central Board of Secondary Education	95%	2021
Secondary	Central Board of Secondary Education	94.4 %	2019

## EXPERIENCE

### • Planto.AI

November 2024 - January 2025

AI Research Intern

Remote

- Contributed to fine-tuning large language models by preparing datasets, configuring training pipelines, and validating model outputs for accuracy. I also gained hands-on experience with tools like Hugging Face APIs and deployment platforms to support model development and testing.

## PROJECTS

### – Solving a differential equation using Neural Networks

GitHub

Personal Project

- Implemented a Physics-Informed Neural Network (PINN) to model a damped harmonic oscillator, leveraging physical laws and noisy data for accurate predictions. Demonstrated parameter estimation by optimizing the damping coefficient using PyTorch and automatic differentiation techniques.

### – Rover bot for automatic maneuvering between two points

GitHub

Personal Project

- Developed an ESP8266-based robotic arm controller that mimics GPS functionality by following a global coordinate system. The system allows users to input coordinates, enabling precise navigation and movement control. The project integrates web-based commands for remote operation, enhancing interaction and usability.

### – AI blog generator

GitHub

Personal Project

- Developed an AI-powered blog generation application using Google Generative AI, enabling users to create engaging blog posts based on specified titles and keywords. Implemented a user-friendly interface with Streamlit, allowing for dynamic content generation and customization. Enhanced functionality with options for word count and image inclusion, improving overall user experience.

### – Website Data Scraping and Sentiment Analysis

GitHub

Personal Project

- Developed a web scraping tool to extract descriptions and genres from multiple webtoon pages. Utilized natural language processing techniques for genre classification using a Decision Tree classifier and conducted sentiment analysis on user comments. Enhanced data insights through automated summarization and machine learning methodologies.

### – Exploratory Stock Data Analysis using RNN, GRU and LTSM Techniques

GitHub

Personal Project

- Developed a stock price prediction model using RNN, LSTM, and GRU techniques to forecast future prices based on historical data. Employed data preprocessing, normalization, and training-validation-test splits to enhance model accuracy. Visualized results using Matplotlib, demonstrating the ability to predict price movements effectively.

## SKILLS

- Programming Languages:** Python, Libraries in Python(Numpy, Pandas), C/C++, LaTeX, MATLAB
- Data Structures and Algorithms:** Arrays, Linked Lists, Stacks and Queues, Graphs, Trees, Dynamic Programming
- Machine Learning:** Learnt Topics like Supervised and Unsupervised learning, Linear Regression, KNN
- Developer Tools:** Git, Google Colab, VS Code, Visual Studio, PyCharm, Jupyter, Overleaf
- Soft Skills:** Teamwork, Adaptability, Leadership, Problem Solving and Time Management

## KEY COURSES TAKEN

- Chemical Engineering:** Heat and Mass Transfer, Transport Phenomena, Fluid Mechanics
- Maths:** Differential Equations, Linear Algebra, Calculus
- Machine Learning:** Andrew Ng's Machine Learning Specialization Course, Kaggle's Data Science Courses

## CERTIFICATIONS AND MISCELLANEOUS

- Personal Finance Course**, FinCOM (Finance, Analytics and Consulting) Club, IIT Ropar 2023 - 2024
- Online Certifications**, C++, Data Structures and Algorithms, Product Management, MS Excel, SQL 2024 - Present