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

- **Coding Jr** *November 2024 - February 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**
Personal Project **Github**
∗ 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**
Personal Project **GitHub**
∗ 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**
Personal Project **GitHub**
∗ 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**
Personal Project **GitHub**
∗ 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**
Personal Project **GitHub**
∗ 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, C/C++, LaTex, MATLAB
–**Data Structures and Algorithms**: Applied understanding of DS and Algorithms.
–**Machine Learning**: Classical Machine Learning, Deep Learning
–**Developer Tools**: Git, Popular IDE's
–**Soft Skills**: Teamwork, Adaptability, Leadership ,Problem Solving and Time Management

Key courses taken

– **Maths**: Differential Equations, Linear Algebra, Calculus, Evolutionary Game Theory
–**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*