

DEEP

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Git hub



Portfolio

Education

Thapar Institute of Engineering & Technology , Patiala

Master's of Computer Application

Aug 2024 - May 2026

CGPA : 8.05

Kurukshetra University , Kurukshetra

Bachelor's in Science

July 2021 - April 2024

CGPA : 6.75

Experience

Machine Learning Intern | Cognifyz Technology - [Link \(Work Done\)](#)
2025

Jan 2025 - Feb

(Intern)

(Remote)

Completed a series of four structured tasks as part of the internship at Cognifyz Technology, involving end-to-end implementation of machine learning models, recommendation systems, classification techniques, and geographical data analysis using real-world restaurant datasets.

Technologies Used: Python, Pandas, Scikit-learn, Matplotlib, Seaborn, Plotly, Jupyter Notebook

Machine Learning Intern | CodAlpha

Dec 2024 - Jan 2025

(Intern)

(Remote)

Successfully completed a machine learning internship under Code Alpha, focusing on practical implementation of predictive modelling with real-world datasets. Developed and deployed models with a strong emphasis on preprocessing, performance evaluation, and model testing.

Technologies Used: Python, Pandas, LightGBM, Scikit-learn, Jupyter Notebook, Excel/CSV, Joblib

Projects

Smart Fitness Insights | Languages: R , Tools: R Shiny, ggplot2, dplyr, readr, shinydashboard , Techniques: Data Visualisation, Machine Learning Simulation, AI-driven Rule-Based Systems | [Project Link](#)

- Developed an interactive R Shiny dashboard to track key fitness metrics (heart rate, stress, steps, calories) and visualise trends using scatter plots, histograms, and boxplots.
- Integrated AI-driven recommendations for personalised workouts, fatigue detection, and smart lifestyle guidance using ML concepts like Collaborative Filtering, Random Forest, and Rule-Based AI.
- Enabled real-time user-specific insights with dynamic filtering, multi-user support, and automated workout plan adjustments based on health patterns and performance data.
- Promoted wellness through proactive suggestions for hydration, rest, and recovery by simulating behavior-driven alerts and intelligent decision-making.

Blood Management System | HTML,CSS,JavaScript(node.js with express),Mongo | [Project Link](#)

- Designed and developed a web-based Blood Management System that connects willing donors with recipients during emergencies, streamlining the donation process within a university setup through secure role-based login for donors, recipients, and admins.
- Implemented real-time blood availability search and email-based request handling, allowing recipients to contact donors directly; donors can accept/reject requests via email, while admins manage users and donation records through a centralised dashboard.

Sentiment Analysis | Python, NLTK, Matplotlib, SpeechRecognition | [Project Link](#)

- Built an AI-powered system that performs sentiment analysis on recorded speech using NLP and VADER sentiment scoring.
- Converted audio to text using Google Speech Recognition and visualised sentiment using bar charts and a compound score gauge.
- Generated a daily emotional report to support mental wellness and real-time mood tracking.

Talk Lens | Python, MediaPipe, PaddleOCR, OpenCV, pytsx3, ESP32, Arducam, 3D Printing | [Project Link](#)

Ongoing

- an AI-powered smart glasses system that reads and translate text aloud on the basis of hand gestures

Technical Skills

- **Languages** : C++, Python
- **Technologies/Frameworks** : Machine Learning ,mysql,Jupyter Notebook, GitHub,Basics: (Matplotlib, Seaborn, Plotly), Familiar with Kotlin and jetpack compose
- **Soft Skills** : Problem Solving, Analytical Thinker, Teamwork, Ambitious,Communication.

Achievements

- Achieved 1st position in Math quiz among bachelor's and master's students.
- Acquired Top-3 Rank in Math Olympiad Twice (Inter School District Level)
- Volunteered in many social derives led by KUK , Tiet.

Certifications

- Android App Development Training Program ([Certificate](#))
- Microsoft Learn ([Certificate](#))