

Amandeep Singh

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📍 Jalandhar, Punjab

Skills

DATA ANALYSIS TOOLS

R studio, SQL, TABLEAU, MongoDB, Power BI

Programming languages

C , C++, PYTHON, R

Web programming

HTML , JAVASCRIPT, CSS

Software testing

Selenium , Mantis bug tracker

Projects

Smart Medication Dispenser

(Patent and Research paper - To publish)

- Developed a smart medication dispenser with 12 sections for 4 days of medication.
- Integrated ESP32 microcontroller with a Python server to manage schedules.
- Created a dynamic HTML/CSS web interface accessible over local Wi-Fi.
- Technologies: Python, ESP32, HTML/CSS, JavaScript
- Outcome: Designed with accessibility features for users with Alzheimer's and visual impairment

Cryptocurrency Price Prediction

(Research paper - To publish)

- Developed a predictive model for cryptocurrency price movements.
- Utilized stacked models and GRU networks to accurately forecast closing values.
- Dataset: Analyzed a large dataset spanning January 2010 to July 2024.
- Technologies: Python, Machine Learning, Stacked Models, GRU Networks.
- Outcome: Achieved remarkable accuracy in predicting cryptocurrency prices.

Airbnb Listings Dashboard

- Objective: Created a Tableau dashboard to analyze Airbnb listings data for strategic business insights.
- Features: Visualized pricing trends, population density, and other key metrics.
- Functionality: Enabled comparison of different locations for potential business expansion.
- Technologies: Tableau, Data Visualization.
- Outcome: Provided actionable insights for future business planning and expansion.

Smart RFID Lock:

- Designed an RFID-based lock system to enhance security.
- Recorded access data and tracked who accessed the lock and when.
- Integrated Telegram API to send notifications with unique RFID details.
- Technologies: RFID, ESP32, Python, Telegram API

Certificates

- Google Foundations of UX Design Certificate [↗](#)
- Data Analysis with R Programming (Google) [↗](#)
- Foundations of Project Management(Google) [↗](#)
- Introduction to Software Engineering(IBM) [↗](#)

Education

2021 – 2024
Jalandhar, India

Bachelor of computer Application
Lovely Professional University

2020 – 2021
Jalandhar, India

12th commerce + Maths
Army Public School