# Parshant Kumar

## SUMMARY

B.Tech AI & Data Science student (2027 Batch) and consistent competitive programmer. Proficient in **Python, SQL, and C++** with a strong focus on **Data Structures & Algorithms**. Eager to leverage analytical skills and automation knowledge for financial technology roles.

## PROJECTS:

### Real Estate Price Prediction Model

Technologies Used: Python, Pandas, Scikit-learn, NumPy, Seaborn.

- Developed a predictive machine learning model to estimate housing prices based on key features (location, square footage, etc.) using **Linear Regression** (or Random Forest).
- Processed and cleaned a raw dataset using **Pandas** and **NumPy**; handled missing values, outlier detection, and categorical data encoding to ensure data quality.
- Achieved an $R^2$ score of 85% (or relevant accuracy) by optimizing hyperparameters and selecting high-impact features through correlation analysis with **Seaborn**.

### IoT-Based Plant Monitoring System

*(1st Position – Science Day 2024)*

Technologies Used: ESP8266, Sensors, Arduino IDE, C++

- **Engineered a real-time data acquisition system** using ESP8266 to continuously **collect and log** soil moisture, temperature, and humidity datasets.
- Developed an automated watering mechanism triggered by soil moisture levels for efficient water usage.
- Features:
    - **Designed a remote monitoring interface** to view live analytics and receive alerts for abnormal environmental conditions.

## PROFESSIONAL EXPERIENCE:

Freelance Web Developer | *Remote (Aug 2024 – Nov 2024)*

- Designed and deployed a responsive portfolio website for a client, ensuring 100% uptime on GitHub Pages.
- **Implemented dynamic content rendering using JavaScript, improving page load speed.**

## CONTACT

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**LinkedIn**

**GitHub**

**Portfolio**

## EDUCATION

Bachelor of Technology Artificial Intelligence and Data Science
Chandigarh Engineering College, Landran
*(2023-2027)*

## SKILLS

- **Programming Languages:** Python, C++, JAVA, SQL
- **Frameworks & Libraries:** Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, Node.js, Express.js
- **Tools & Platforms:** Arduino IDE, GitHub

## ACHIEVEMENTS

- **1st Position:** Science Day 2024 (IoT Project).
- **500+ Problems Solved:** Codeforces
- **Elite Certified:** Python DSA (NPTEL)