

CONTACT

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EDUCATION

Graduation

Course BTech [ISE]
College Presidency University, Bengaluru
CGPA 7.01

Higher Secondary

Board Name Karnataka
Medium English
Year of Passing 2022
Percentile 86.6%

Secondary

Board Name Karnataka
Medium English
Year of Passing 2020
Percentile 91.52%

SKILLS

Technical

- Programming languages [Python, JAVA]
- Full Stack Web Development
- Data Science and Analytics
- AI/ML
- DSA

Non-Technical

- Effective Communication
- Teamwork
- Leadership
- Work ethics
- Time management
- Problem solving

ALFIYA SIMRAN

ASPIRING SOFTWARE ENGINEER

I am a proactive 3rd year Information Science and Engineering student with hands-on experience in data analytics, programming, and emerging technologies like Workday Prism Analytics. I am passionate about solving real-world problems through technology and thrive in collaborative environments.

PROJECTS

Smart waste management system

An IoT-based solution using Arduino, ultrasonic sensors, and GSM to monitor bin waste levels and alert municipal authorities in real-time. Key features include automated SMS alerts, live bin status tracking, and efficient resource allocation. The project emphasizes practical hardware integration and scalable smart city deployment for better sanitation and environmental sustainability.

Smart Medicine vending machine

An automated dispensing system built with Raspberry Pi, Python, and sensors, offering secure access to medicines. Features include RFID/OTP verification, inventory monitoring, and automatic low-stock alerts. The machine ensures seamless dispensing, reliable hardware-software integration, and promotes accessible healthcare delivery.

Personal Finance Visualizer

A web app for tracking and analyzing personal finances, built with Next.js, React.js, Tailwind CSS and MongoDB. Users can manage transactions, categorize expenses, and visualize spending through interactive charts. The project focuses on clean UI, performance optimization, and dynamic financial insights.

Speech-Controlled PC Assistant

A desktop app built with Python, Speech Recognition, pyttsx3, and PyAutoGUI to control computer functions via voice. Supports scrolling, switching tabs, launching apps, and typing commands. The tool enhances accessibility and productivity with customizable voice commands and real-time feedback.

Diabetes Prediction System

A web app using Python, Scikit-learn, Flask, and React.js to predict diabetes risk based on user-inputted medical data. Features include real-time predictions, probability scores, and health recommendations. The project emphasizes accurate ML modeling, responsive UI, and user-friendly design for health awareness.

Breast Cancer detection system

A web app using Python, Scikit-learn, Flask, and React.js to predict breast cancer malignancy from diagnostic data. Includes data preprocessing, real-time predictions, and performance metrics. The system is designed for accuracy, ease of use, and effective healthcare application of ML.

LANGUAGES KNOWN

- English
Proficient
- Kannada
Proficient
- Hindi
Proficient

HOBBIES

- Dancing
- Singing
- Writing
- Volunteering

IPL team prediction

A machine learning app built with Python, Scikit-learn, Pandas, and Streamlit to predict IPL match outcomes. Users input match details like team names, venue, and toss result for instant predictions. The app offers clear visual results and demonstrates applied ML for sports analytics.

Credit card Fraud Detection Model

A full-stack web app using Flask and React.js to identify fraudulent credit card transactions with ML algorithms. Features include secure data input, real-time fraud detection, and a prediction history log. Focuses on accuracy, UI responsiveness, and practical ML integration.

CERTIFICATIONS

- Data Analysis with Python
- Python 101 for Data Science
- Introduction To MS Excel
- Data Analyst 101: Excel Formulas & Functions
- Introduction To Tableau
- Logic Building in Java
- Beginner DSA in Java
- Learn Advance Java
- The Data Science Course: Complete Data Science Bootcamp 2025
- Full Stack – Developing and Implementing software programs
- Python Django
- Python fundamentals

INTERNSHIPS

InternPe, November 2024 - November 2024 [4 week]

During my internship at InternPe, I worked on developing Machine Learning-based solutions for real-world problems. My key projects included building a Diabetes Prediction System, an IPL Winning Team Prediction System, and a Breast Cancer Detection System. I was responsible for data preprocessing, model training, evaluation, and building userfriendly interfaces for these models. Additionally, I created video demonstrations explaining the working of each project and shared them on LinkedIn, showcasing my technical and communication skills. This experience strengthened my abilities in ML model development, Python programming, and project presentation.