

# ALFIYA SIMRAN

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## SKILLS

**Programming:** Python, Java, JavaScript

**Frontend:** React.js, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, Framer Motion

**Backend:** Node.js, Express.js, RESTful APIs, Firebase, API Integration

**Database:** SQL, MySQL, SQLite, Firebase Firestore, MongoDB (basic)

**Core:** OOPS, DBMS, CN

## PROJECTS

### Brain Bloom (Academic Project)

GitHub

*Python, Deep Learning, MobileNetV2, Tkinter, SQLite*

- Contributed to an interactive cognitive retraining tool for children with developmental disabilities using Python and Tkinter GUI
- Collaborated on implementing MobileNetV2-based CNN for image classification and integrated SQLite database to track performance
- Assisted in designing gamified modules for visual memory, sequencing, and language comprehension to provide personalized learning feedback

### InvestNest

GitHub

*React, Vite, Tailwind, Firebase*

- Built a modern startup investment platform with Firebase Authentication and Firestore
- Implemented responsive UI using Framer Motion with real-time data handling
- Enhanced user engagement through scalable frontend architecture

### Brain Tumor Classification System

GitHub

*Python, Deep Learning, CNN*

- Developed a deep learning model to classify brain MRI images into tumor categories
- Improved diagnostic accuracy using optimized preprocessing pipelines and CNN architecture

### Speech-Controlled Mini PC Assistant

GitHub

*Python, SpeechRecognition, PyAudio*

- Engineered a voice-controlled desktop assistant to execute system-level commands
- Achieved 90% voice recognition accuracy across 10+ tested commands

### Shopper Spectrum

GitHub

*Python, Machine Learning, Pandas, Scikit-learn*

- Built a customer segmentation system using unsupervised learning to analyze shopping behavior
- Performed data cleaning, feature engineering, and K-Means clustering for pattern discovery
- Generated actionable insights to help improve targeted marketing and customer retention

## INTERNSHIP

### Full Stack Development Intern

Present

*TAP Academy*

- Developing full-stack applications using HTML, CSS, JavaScript, React
- Strengthening problem-solving skills through hands-on coding, DSA practice, and real-world tasks
- Working on database integration and RESTful API concepts under guided mentorship

## EDUCATION

### B.Tech in Information Science Engineering

2022 – 2026

*Presidency University, India*

### 12th PCMB

2020 – 2022

*St. Joseph's Convent Girls Composite PU College, India*