

LAKSHYA AGARWAL

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EXPERIENCE

SBM Group Siliguri - [SBM Siliguri](#)

May 2025 - August 2025

Intern, Web Developer

- Redesigned the company website using React.js and pure CSS for a responsive, modern user experience
- Developed new features to enhance engagement and streamline navigation
- Conducted market research to align the platform with industry trends and user needs

ModelVision - [StartupTree](#)

September 2024 - October 2024

Co-Founder, Lead Programmer

- The absence of three-dimensional visual representations in educational books limits student engagement and hinders learning. That's where we come into play! ModelVision brings a new and innovative approach to learning. We bring textbooks to life.
 - Engineered an app enabling image capture and 3D AR model displays
 - Collaborated with team members to bring augmented reality applications to classrooms.

EduBank.AI - [GitHub](#)

February 2025 - Present

Co-Founder, Lead Programmer

- Traditional study materials often limit AI-driven assistance, making it challenging for educators to maximize their resources. That's where EduBank.AI comes in!
 - Developing a platform where teachers can upload lecture notes in any format—PDFs, videos, images, and more.
 - Creating an AI system that processes the content and enables interactive learning.
 - Implementing features like question generation, unique example variations, and lecture assistance—all strictly based on the teacher's provided materials.

PROJECTS

Personal Virtual Assistant – Python | [GitHub](#)

- A voice-activated assistant for desktop that can execute commands like opening applications, sending messages, and more

Motion Detection– Python | [GitHub](#)

- A security application that uses a camera to detect movement and triggers an alarm when motion is detected.

Hand Gesture Recognition– Python | [GitHub](#)

- Recognizes hand gestures (thumbs up, down, OK sign, etc) and interprets them to provide real-time feedback.

Dodge Till Infinity– Unity(C#)| [Itch.io](#)

- A 2D obstacle-dodging game with continuously spawning obstacles, challenging players to survive as long as possible.

Wordle Clone– Swift, SwiftUI| [GitHub](#)

- A Swift and SwiftUI-based Wordle clone with daily challenges, real-time feedback, progress tracking, and dark mode support for iOS.

AI vs Human Flappy Bird– Python | [GitHub](#)

- A Python-based Flappy Bird clone with AI training via neat-python, real-time Human vs AI gameplay, score tracking, and dynamic difficulty using pygame.

TECHNICAL SKILLS

Softwares/Tools: Blender, Unity3D, Unreal Engine, OpenCV, OpenAI API, Tkinter, SpeechRecognition, Selenium, NumPy, Panda, XCode, SwiftUI, Neat-Python, PyGame, Google Cloud Platform, GeminiAPI, UniPdf, T3 Stack, TailwindCSS, ShadCN, MySQL, PostgreSQL, REST API, Django

Programming Languages: Python, Java, C/C++, C#, HTML, CSS, Swift, GoLang, React.js, Next.js, PHP

EDUCATION

Virginia Polytechnic Institute and State University, Blacksburg, VA

Bachelor's in General Engineering with Major in Computer Science

Delhi Public School, Siliguri, West Bengal, India

CBSE Senior Secondary Diploma in Science