

SHUBHAM DEY

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Professional Description

Detail-oriented Computer Applications undergraduate with strong foundations in full-stack development and applied AI/ML. Experienced in building real-world web applications, including accessibility platforms and personal finance systems, with secure authentication and data-driven features. Actively expanding expertise in machine learning, system design, and modern web technologies through projects, coursework, and hackathons.

Technical Skills

PROGRAMMING LANGUAGES: **Python**, Java, C, PHP, JavaScript

AI & DATA SCIENCE: **Pandas**, **NumPy**, **Scikit-learn**, **YOLOv8**, Matplotlib

WEB DEVELOPMENT: **Flask**, **Django**, HTML, CSS, Bootstrap

DATABASES: **MySQL**

TOOLS & TECHNOLOGIES: Git, GitHub, Docker

CURRENTLY LEARNING: React, Advanced Django, Machine Learning

Education

Bachelor of Computer Applications (Pursuing)

Institute of Information Technology & Management, Janakpuri, Delhi

Affiliated to Guru Gobind Singh Indraprastha University (GGSIPU)

Current CGPA (Till 3rd Semester): **9.19**

Projects

SignVerse — AI-Powered Sign Language Platform

Full-stack accessibility platform enabling real-time sign translation, learning, and AI-assisted communication for the deaf & mute community.

Key Contributions

- Built **YOLOv8**-based Indian Sign Language Detection Model.
- Integrated **WebRTC** + **Socket.IO** for live video calling and chatting platform with translation support.
- Developed interactive sign language learning modules with tests and progress tracking.
- Implemented AI-based grammar correction, sentence enhancement, and multilingual conversion.
- Integrated **Custom Finetuned chatbot** for intelligent Platform assistance.
- Developed secure user authentication, profile management, and backend systems using **Flask** & **MySQL**.
- Achieved full-stack integration across AI models, frontend (**HTML/CSS/JS**), backend, and real-time communication.

• [Project Link](#) • [Video Demo](#)

FinancePro — Personal Finance Management Web Application

Full-stack web app for intelligent budgeting, expense tracking, and AI-driven financial planning.

Key Contributions

- Built expense tracking, budgeting, savings goals, and cumulative financial monitoring.
 - Implemented financial analytics: spending trends, category distribution charts, and PDF reports.
 - Added gamification system with points, badges, leaderboards, and streak tracking.
 - Designed secure authentication (bcrypt), session management, and OTP-based password recovery.
 - Integrated email notifications and feedback system using PHPMailer.
 - Delivered end-to-end full-stack solution using **PHP, MySQL, JavaScript, HTML/CSS, Chart.js**.
- [Project Link](#) • [Video Demo](#)

Courses & Achievements

Courses

Data Science and Machine Learning using Python — SO Infotech

Achievements

- **Hack With India** — Top 40 Finalist (Microsoft, Gurgaon).
- **CodeSynthesis** — Mentorship & Pitch Round (Round 2, Online), organized by Guru Tegh Bahadur 4th Centenary.
- **NexVerse 2025** — Participation, organized by the Institute of Information Technology & Management.
- **Smart India Hackathon (SIH)** — Participation, organized by the Government of India.