# AKSHAT TIWARI

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## EDUCATION

**SHRI RAMDEOBABA COLLEGE OF ENGINEERING AND MANAGEMENT**      Nagpur, Maharashtra
Bachelor of Technology      Expected May 2027
Computer Science and Engineering      CGPA : 7.59

## PERSONAL PROJECTS

**SNIPSHARE: A CODE SNIPPET SHARING PLATFORM- (Link)**
Next.js, Tailwind CSS, FireBase, TypeScript
- **Developed a modern snippet-sharing platform** with real-time **syntax highlighting** and **code execution** across 4+ languages (JavaScript, Python, Java, C++).
- **Engineered snippet CRUD operations** with Firestore for high-speed storage and retrieval.
- **Designed a responsive, theme-switchable UI** using Tailwind CSS with optimized CLS and LCP scores for performance.
- **Conducted peer code reviews** and adhered to GitHub PR workflows, **reducing post-deployment bugs by ~40%**.
- **Performed unit & integration testing** for critical modules, achieving **>90% coverag**e with Jest & React Testing Library.
- **Automated demo content generation** via server-side API endpoints and admin management dashboard, streamlining content updates for demonstrations.
- **Established contribution guidelines** and code standards to maintain code quality and streamline onboarding for open-source collaborators.

**PASSWORD MANAGER - (Link)**
Python, SQLite, Object Oriented Programming
- **Implemented AES-256 encryption** to securely store all user passwords, ensuring strong protection against unauthorized access and aligning with industry-standard security practices
- **Increased user password strength by up to 40%** through a custom password generator with real-time feedback, promoting strong password creation and enhancing account safety.
- **Built a customizable strong password generator** with real-time strength feedback, promoting better password hygiene and user engagement during account creation.
- **Designed and developed multi-user support** with secure user registration, email verification, and basic account management functionality, simulating production-ready authentication workflows.
- **Integrated Two-Factor Authentication (2FA)** using email-based OTPs and time-based one-time passwords (TOTP) to enhance login security and demonstrate multi-layer authentication implementation.
- **Created both GUI and CLI interfaces** for cross-platform usability, offering flexible access for different user preferences and improving the overall versatility of the application

**SIGN LANGUAGE LEARNING ANDROID APPLICATION - (Link)**
Team Lead | Java, XML, AndroidX, and Material Design
- **Led a team of 4 developers** to design and build a mobile application that enables users to learn and interpret sign language through interactive features and accessibility-focused design.
- **Oversaw feature planning and task delegation**, ensuring timely development of key modules including fingerspelling tutorials, common sign animations, and a text-to-sign interpreter.
- **Designed and implemented 3+ core modules**, including daily quizzes with progress tracking and secure authentication via SQLite, improving user retention and app reliability.
- **Expanded accessibility** by integrating speech recognition APIs, enabling users to **convert spoken language into sign letters**.
- Conducted **weekly code reviews and debugging sessions**, reducing development bugs by **35%** and promoting consistent code quality and team collaboration
- **Managed external resources integration**, adding emergency sign references and curated learning links to enhance educational value.

## ADDITIONAL

**Technical Skills**: Advanced in Python, Linux, Java, Javascript, HTML/CSS,
**Languages:** Fluent in English, Hindi; Conversational Proficiency in German
**Certifications & Training:** Python For Everybody (Coursera), Project Management(Coursera), Blockchain Basics (Coursera)
**Achievements**: Geeks for Geeks coding contest (8th among 70+ teams),Finished in the Top 10 among 200 teams in College internal hackathon.