

AKSHAY KUMAR SINGH

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Summary

Aspiring Software Engineer currently pursuing a B.E. in Artificial Intelligence and Machine Learning with strong foundation in data structures, algorithms, and android development. Skilled in Java, Python, C, and JavaScript with hands-on experience building scalable mobile applications using XML and Java. Active contributor to tech communities through Google Developer Groups and hackathons.

Skills

Programming Languages: Java, C, Python, JavaScript, SQL, C++

Mobile Application Development XML, Java, Flutter

Core Computer Science: Data Structures & Algorithms, Object-Oriented Programming

Tools & Platforms: Android Studio, Git, GitHub, VS Code

Projects

Melody App | *XML, Java, Android Studio*

May 2025

- Simple Android music player app that allows users to browse, play, and control local MP3 songs stored on their device.
- Scans device storage or MediaStore to fetch all .mp3 files and displays them in a ListView.
- Includes playback controls (Play, Pause, Next, Previous), song duration tracking, and SeekBar navigation.
- Shows media notifications with playback buttons allowing control outside the app.
- Implements permission handling for READ MEDIA AUDIO / READ EXTERNAL STORAGE.
- Automatically plays the next track when a song finishes, with full playlist looping support.

Swati Arts–Full-Stack Artwork Ordering Website | *HTML, CSS, JavaScript, Node.js, Express.js, Cloudinary* Oct 2025

- Developed a full-stack artwork ordering platform for a Client with pages for home, contact, payment, privacy policy, shipping details, and refunds.
- Implemented complete SEO optimization including meta tags, Open Graph, structured data, sitemaps, robots.txt, and Google Search Console verification.
- Built backend APIs using Node.js and Express.js for handling orders, contact forms, and server-side processing.
- Integrated Cloudinary for optimized image hosting and fast artwork delivery.
- Deployed the application on Render with HTTPS and production-ready configuration.
- Listed on Google and Brave search engine. Search Swati arts and find <https://swatiarts.onrender.com/> [Site Preview](#)

EmotionVerse – AI Story Generator | *Python, Streamlit, TensorFlow, OpenCV*

Nov 2025

- Developed an AI-powered web application that detects facial emotions using a TensorFlow/Keras CNN model trained on FER datasets.
- Built an interactive Streamlit interface enabling real-time image upload, model inference, and emotion-specific story generation.
- Engineered a modular preprocessing and inference pipeline, including face detection, image normalization, and JSON-based story retrieval.
- Integrated GoogleTranslator API to generate multilingual story outputs in English, Hindi, Spanish, French, and German.

ManoSaathi – Mental Well-Being Companion | *HTML, CSS, JavaScript, Node.js, Express.js, AI Chat*

Nov 2025

- Developed an interactive mental-health support platform featuring mood tracking, journaling, calming exercises, and motivational resources.
- Integrated an AI-powered chatbot for emotion understanding, supportive conversation, and personalized recommendations.
- Designed a clean and accessible user interface for smooth navigation and improved user engagement.
- Built backend APIs using Node.js and Express.js to handle user interactions, logs, and dynamic content delivery.
- Implemented features like daily mood analytics, user progress tracking, and emotion-based guidance.
- Deployed the application on Vercel with automated builds, live preview, and production-ready optimization.
- **Live Preview:** mano-saathi.vercel.app

Awards & Certifications

- Selected through institutional hackathon screening for SIH participation and awarded the certificate. [See Credentials](#)
- Completed the “Java Class Library” course by LearnQuest on Coursera, strengthening core Java programming concepts. [See Credentials](#)
- Completed “Java Programming: Solving Problems with Software” (with honors) from Duke University via Coursera, enhancing Java problem-solving and software development skills. [See Credentials](#)
- Completed “Introduction to MongoDB,” gaining hands-on skills in NoSQL databases and document-based data modeling. [See Credentials](#)
- Participated in Nirv AI, a hackathon organized by Nitte Meenakshi Institute of Technology, showcasing teamwork and AI skills. [See Credentials](#)
- Completed a certified course on Data Structures and Algorithms using Python to strengthen problem-solving skills. [See Credentials](#)
- Completed 40 hours of skill-based training on Additive Manufacturing, gaining hands-on exposure to Industry 4.0 technologies. [See Credentials](#)
- Achieved certification in Data Structures and Algorithms, enhancing algorithmic thinking and coding efficiency. [See Credentials](#)

Education

Bachelor of Engineering - Artificial Intelligence and Machine Learning	September 2023 – July 2027
<i>Nitte Meenakshi Institute of Technology, Bangalore</i>	<i>CGPA: 7.37 / 10</i>
Senior Secondary (XII), CBSE	May 2023
<i>DAV Public School, Bistupur, Jamshedpur</i>	<i>Percentage: 84.8%</i>
Secondary (X), CBSE	August 2021
<i>DAV Public School, Bistupur, Jamshedpur</i>	<i>Percentage: 92%</i>

Position Of Responsibility

Tech Team Member Google Developer Groups (GDG), NMIT	Nov 2024 – Present
<i>Organized hackathons and conducted workshops on AI like CodeSprint 2025 and Winter Tech Arc, 2024</i>	