# Ajay Kumar

Sitare University with SRMU, Lucknow, India

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## Education

**B.Tech, Computer Science, Sitare University**                                    *Course Completion - May'26*

*Relevant Coursework: Python Programming, Java Programming, Object Oriented Programming Concepts, Advanced Data Structures and Algorithms, Artificial Intelligence, Database Management Systems.*

GPA: 6.06

## Technical Skills

Programming Languages: Python, Java, JavaScript,

Web Technologies: HTML, CSS, NodeJs,ExpressJs,Flask

Database Management: MongoDB, MySQL, PostgreSQL

Tools and Technologies: Numpy, Pandas, Git, GitHub

## Projects

Feedback Management System (github)
- *An intelligent feedback management system automating collection, analysis, and communication with real-time visualization, role-based access, and multi-platform support.*
- *This website is Hosted on sitare university server. students.sitare.org*
- *Technologies used: Flask, PostgreSQL, HTML, CSS, JavaScript, Matplotlib/Plotly, cron jobs, Flask extensions, and mobile app integration for backend, database, responsive UI, automation, and real-time visualization.*

Sitare Chatbot (github)
- *Developed an RAG-based university chatbot using Flask and PostgreSQL, leveraging embeddings to improve search accuracy by 30%.*
- *Implemented semantic search with pg-vector, achieving 85% query relevance, and enhanced functionality with user feedback-driven improvements.*

Tweet Sentiment (github)
- *A Flask-based web app for sentiment analysis of tweets, storing results in PostgreSQL, visualizing with bar charts, and featuring an admin panel.*
- *Tech Used Flask, NLTK, PostgreSQL, Pickle (for sentiment model), Selenium, Matplotlib, psycopg2*

News Analyzer (github)
- *A news analyzer tool that scrapes articles from URLs, cleans the text, and returns structured data for analysis.*
- *Tech Used Flask, BeautifulSoup.*

Image Editor (github)
- *A web-based image editor that allows users to upload images, apply various filters (such as pencil sketch, crop, rotate, blur, and flip).*
- *Tech Used Flask, PIL (Pillow), HTML, CSS, JavaScript, Base64, OpenCV, Requests*

## Extracurricular Activities

Bharat Scout and Guide                                                                   *March 2017-21*
Debate Club Sub coordinator                                                            *Aug'24-present*

## Scholarships

100% B.Tech CS Scholarship, Sitare Foundation                                    *Oct'23 - Present*
Reliance undergraduate scholar                                                         *Jan'24-Present*