SAKSHI TIWARI

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OBJECTIVE

Computer Science student at Visvesvaraya Technological University, graduating in 2026, with strong fundamentals in data structures and algorithms, and software engineering. Experience in building scalable systems using Python and machine learning. Proficient in Unix/Linux and Git. Familiar with distributed system concepts and TCP / IP networking.Searching for software engineering roles. Actively looking for software engineering and software engineering internship roles

EDUCATION

Bachelor of Engineering, Computer Science May 2026
Visvesvaraya Technological University GPA 9.25/10 Karnataka, India

SKILLS

Programming Languages	Python, JAVA, HTML, C, CSS, SQL
Technical Skills	Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, Linux, Machine Learning, Artificial Intelligence, DBMS, Software Engineering, Data Analysis
Developing Tools/Platform	GitHub, VS Code, IntelliJ, Jupyter Notebook, PyCharm, Keil uVision4, TeXstudio, MS Word
Libraries	TensorFlow, Scikit-learn, Streamlit, NumPy

PROJECTS

Toxicity Detection Discord Bot (Python, Machine Learning, NLP, Scikit-learn, Discord API)

• Developed a Discord moderation bot that detects and flags toxic messages like insults, threats, and hate speech using a trained machine learning model
• Trained the model using the Jigsaw Toxic Comment Classification dataset with over 100,000 labelled comments, achieving 92 percent accuracy across six toxicity categories.
• Used TF-IDF vectorization and logistic regression for fast and accurate message classification; response time remained under 2 seconds per message
• Integrated the bot into Discord servers via the Discord API, successfully automating 80 percent of manual moderation tasks in servers with 100+ active users.
• Improved server safety and user experience by providing real-time toxic content filtering, demonstrating the practical application of machine learning in social platforms.

Data Masker – Smart Data Redactor (Python, Streamlit, Regex, Faker, NLP)

• Built a web-based tool that scans unstructured text to automatically detect and redact sensitive personal data such as email addresses, phone numbers, and locations.
• Combined Regular Expressions with basic NLP techniques to ensure 96 percent precision in detecting personally identifiable information (PII).
• Optimized performance to process 10,000+ lines of text per minute with minimal memory usage, suitable for batch processing large datasets
• Designed a user-friendly Streamlit interface that allows users to upload files and instantly view/download redacted output, making the tool plug-and-play
• Helped reduce manual redaction effort by over 70 percent, improving privacy compliance workflows for teams handling customer data or internal documents.